

FIG. 1

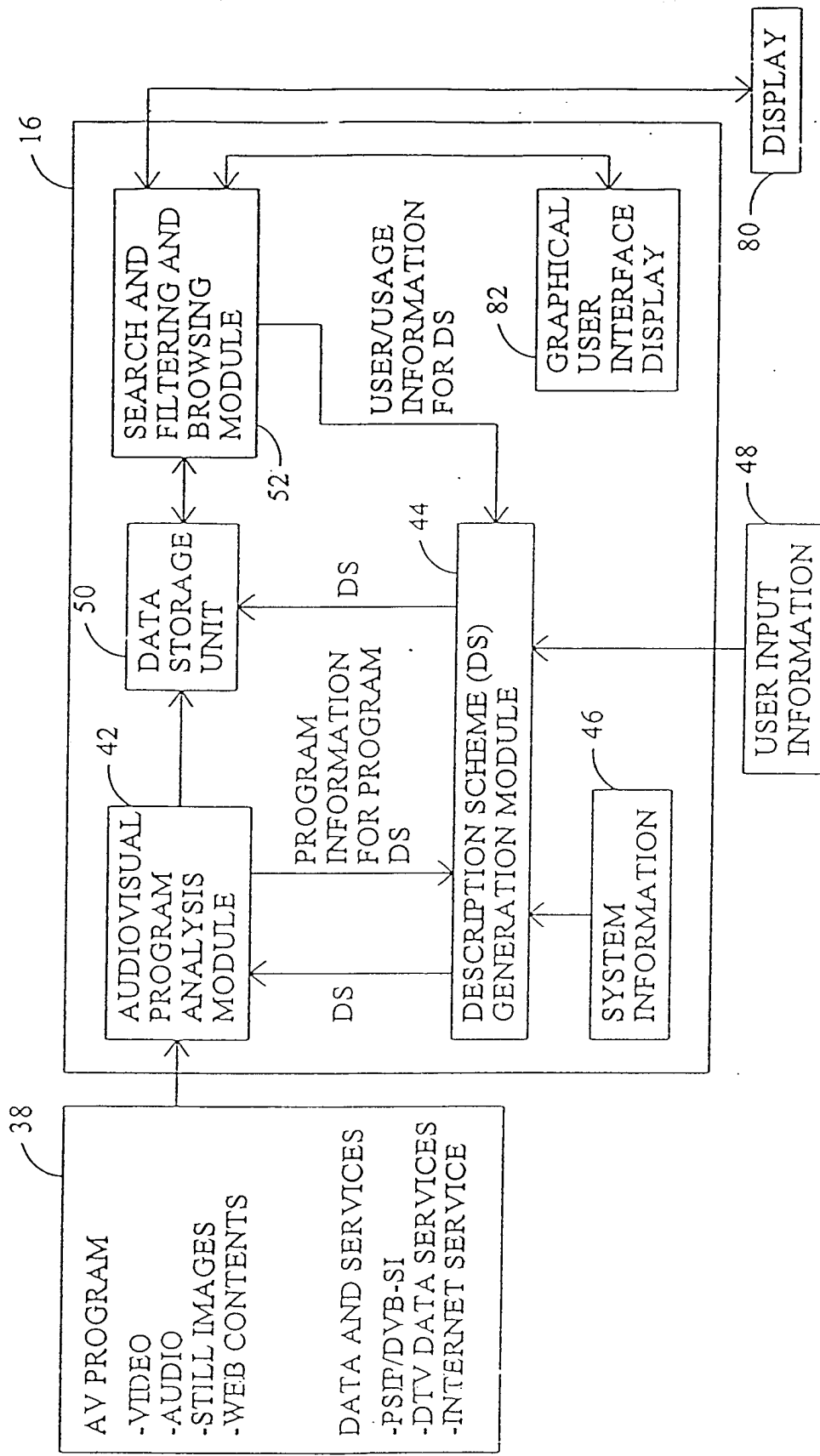


FIG. 2

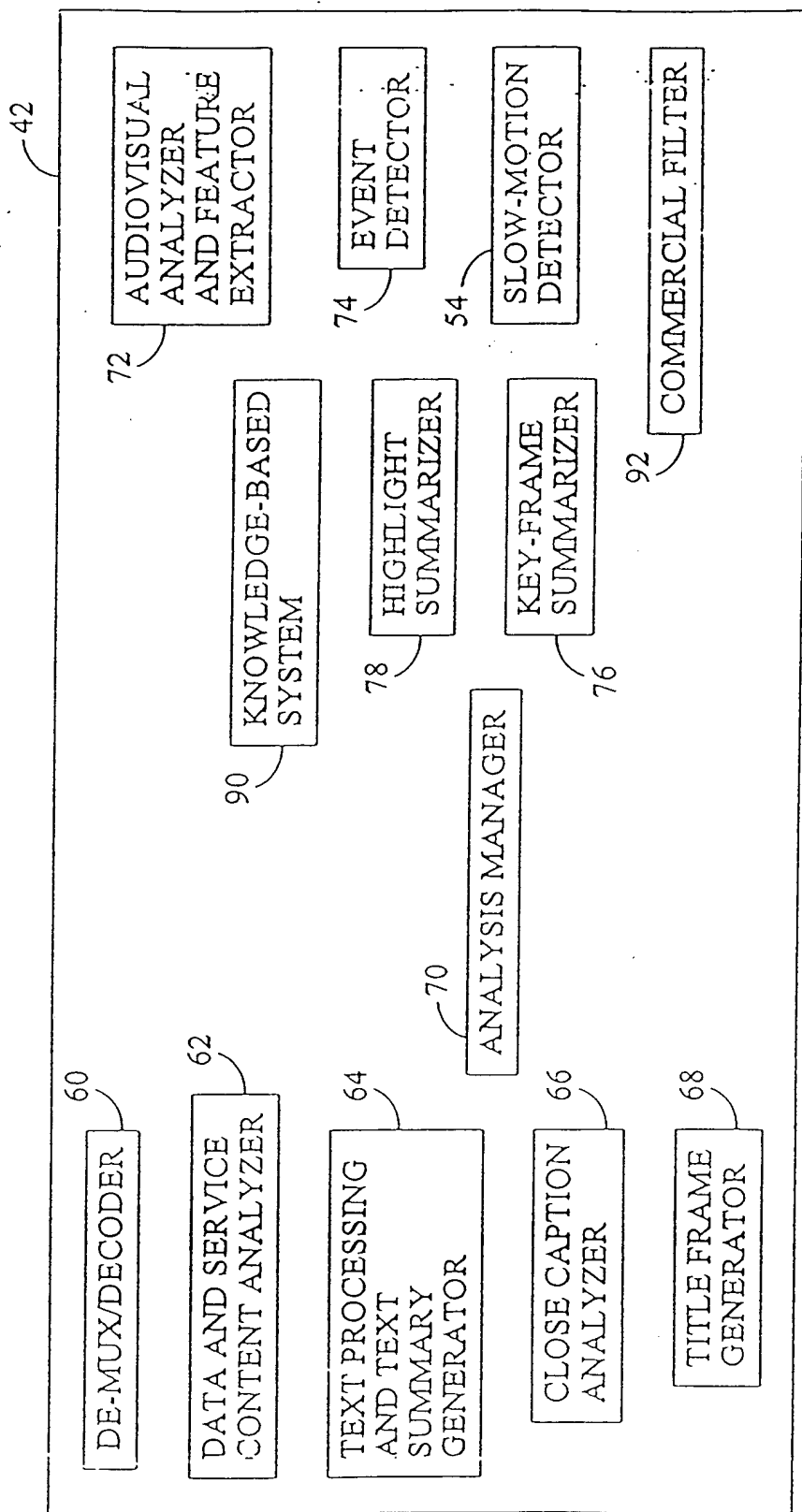


FIG. 3

Thumbnail View (Category)

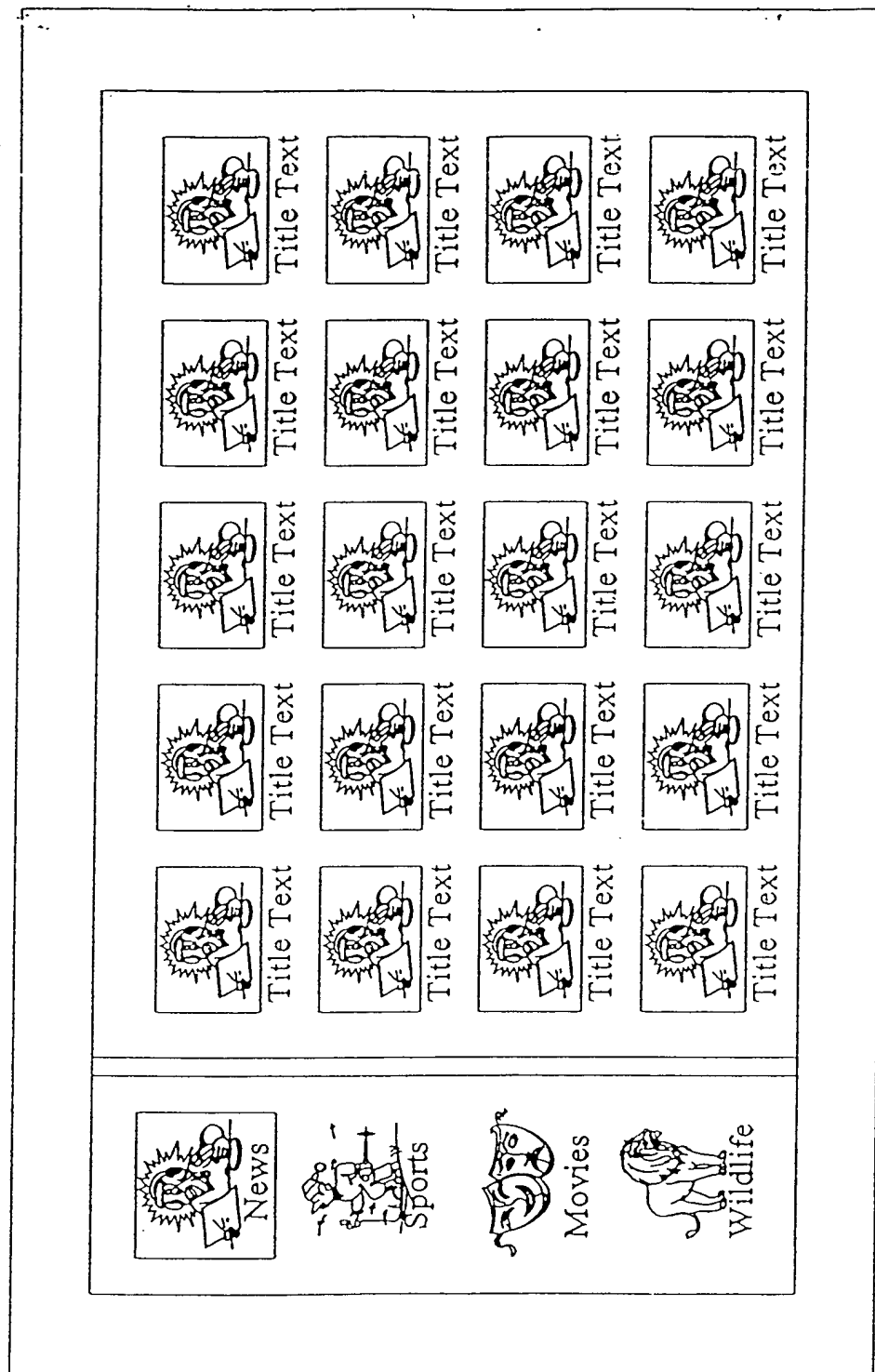


FIG. 4

Thumbnail View (Channel)

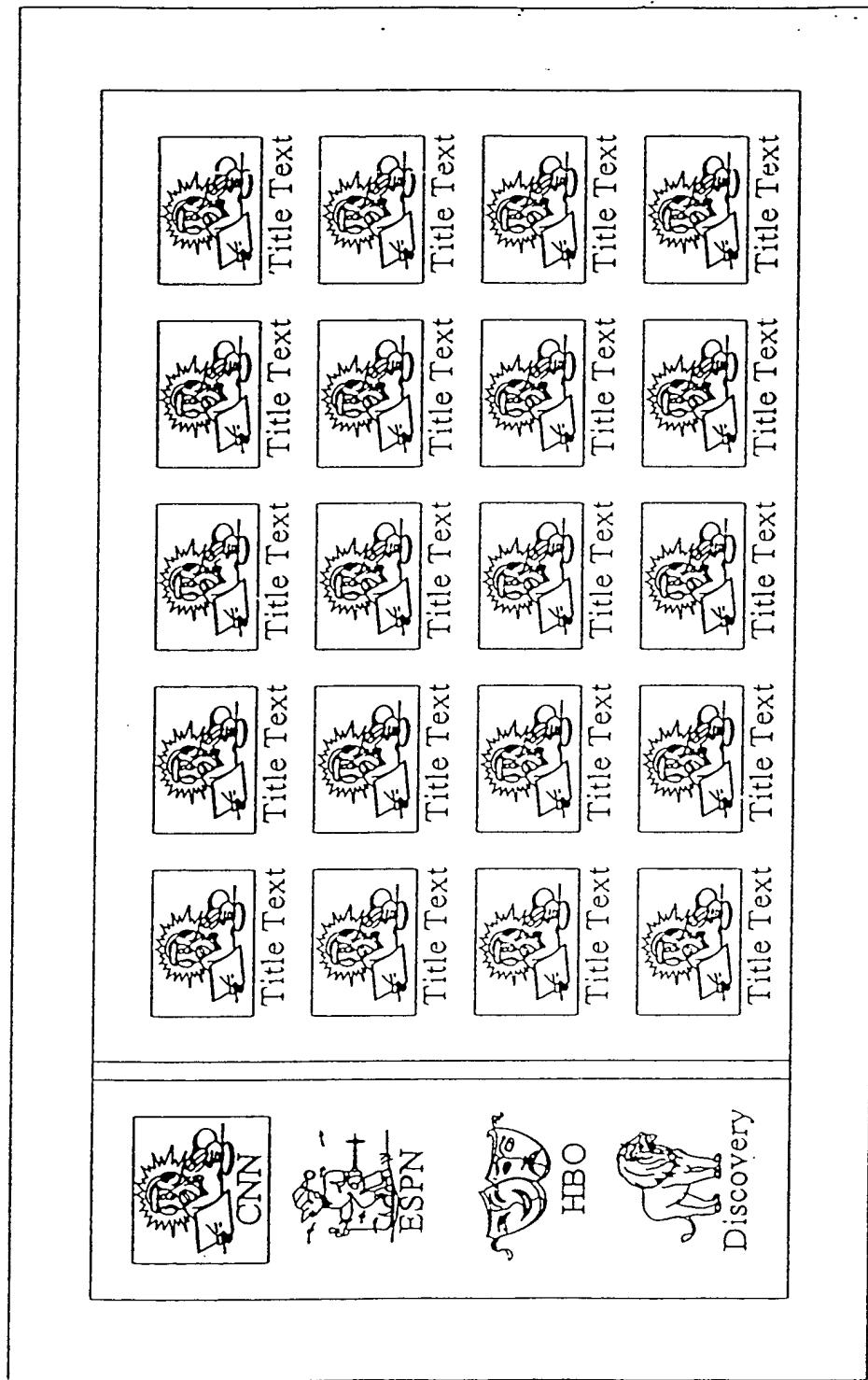


FIG. 5

Text View (Channel)

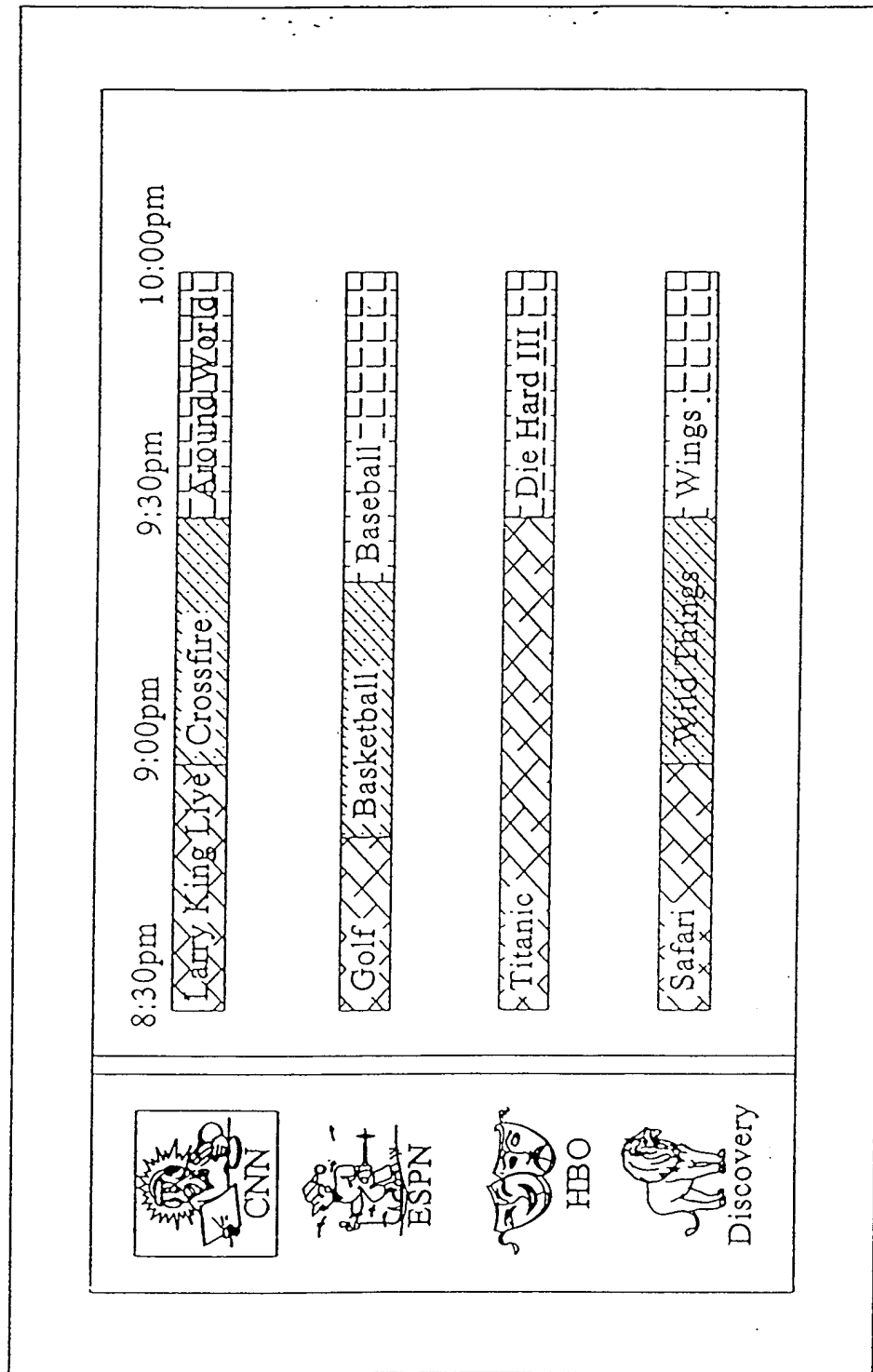


FIG. 6

Frame View

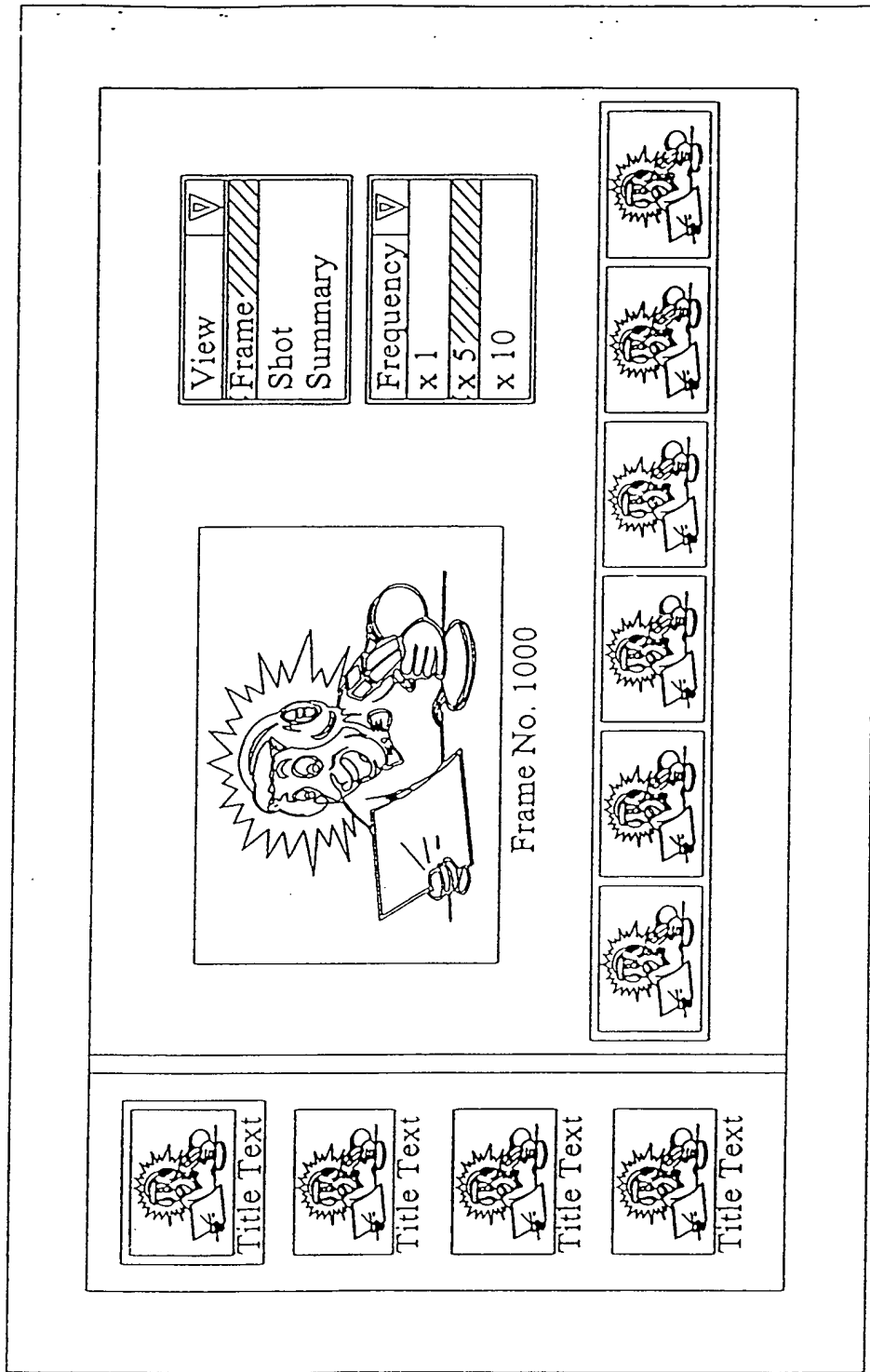


FIG. 7

Shot View

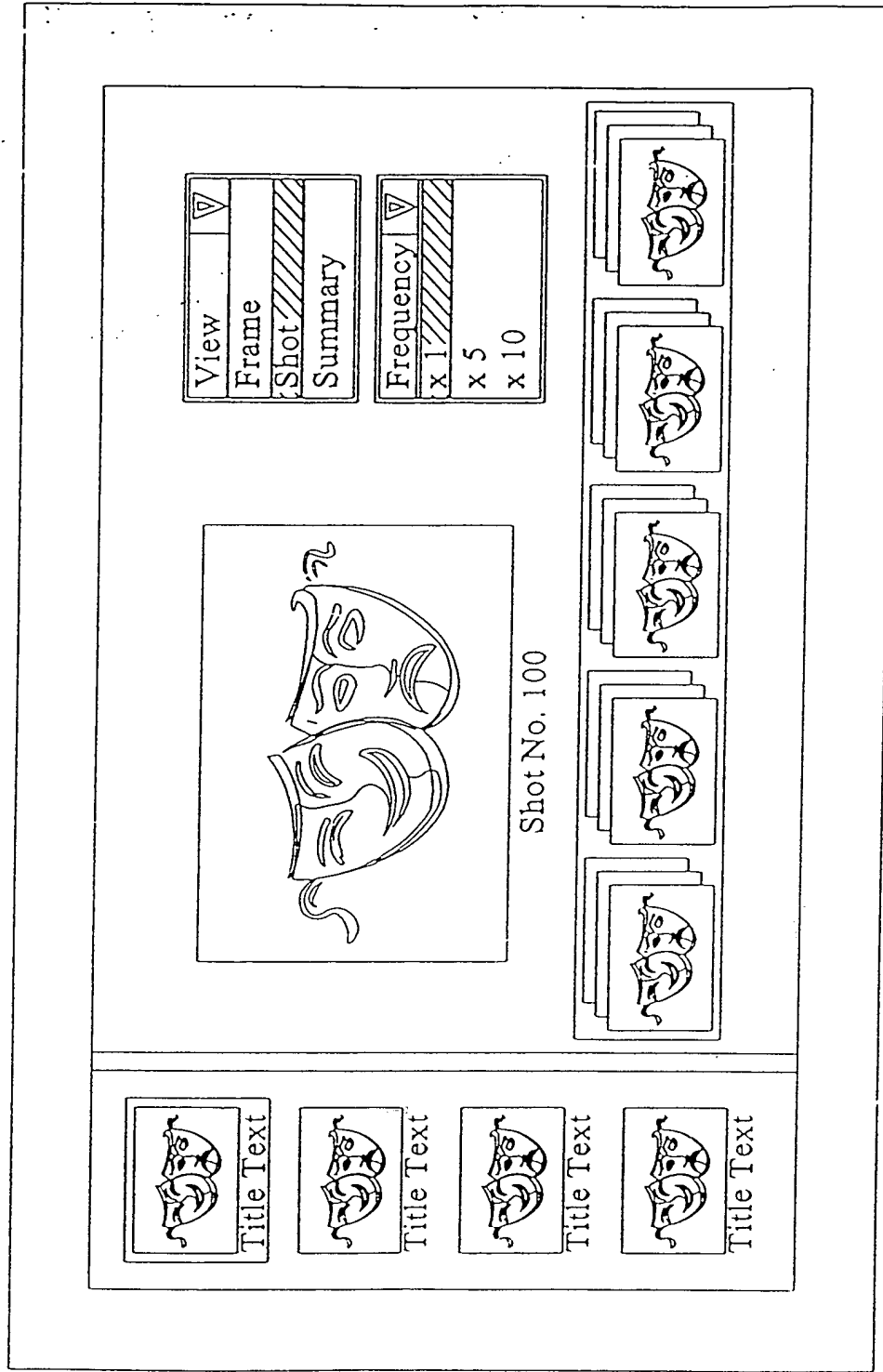


FIG. 8

Key Frame View

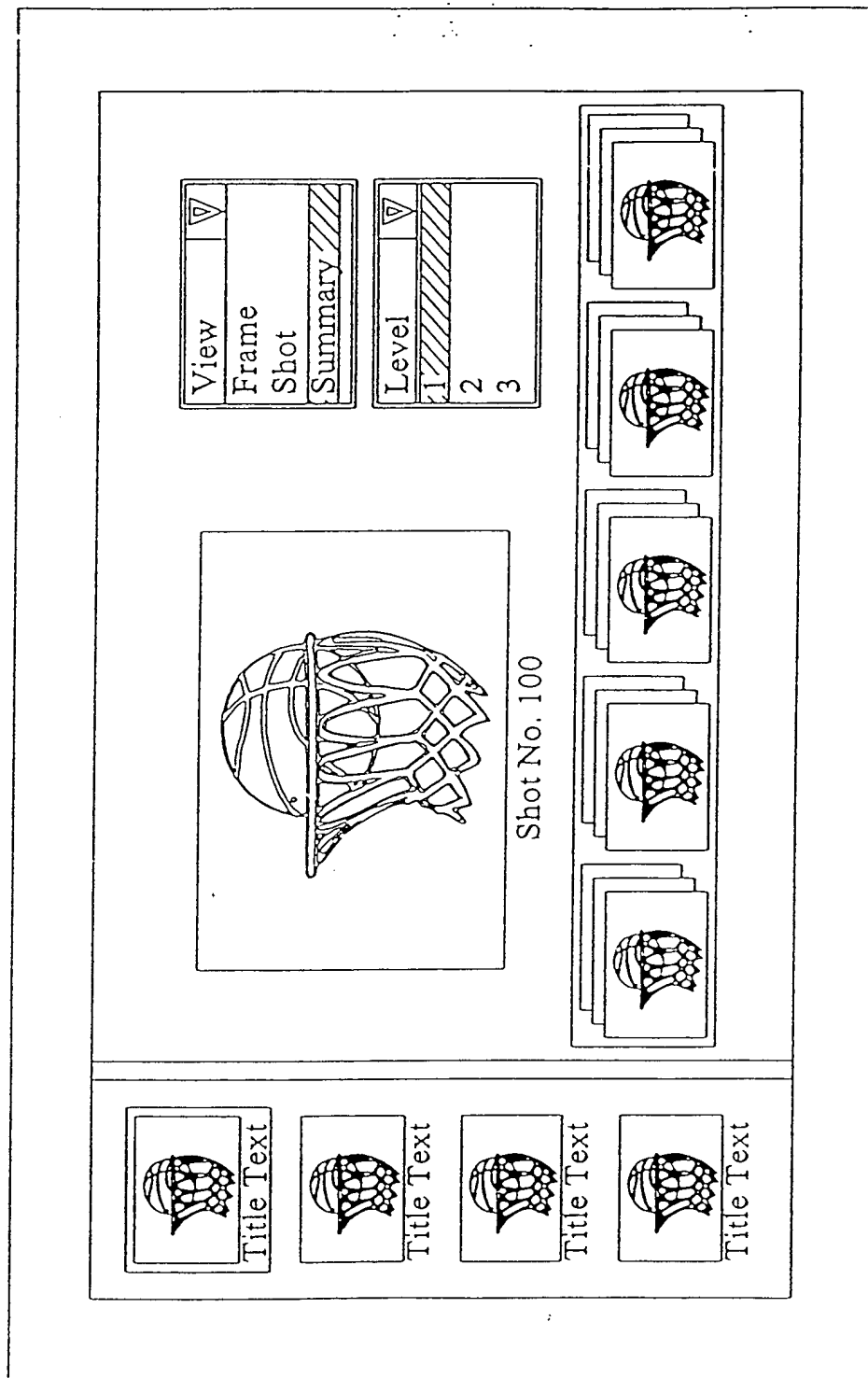


FIG. 9

Highlight View

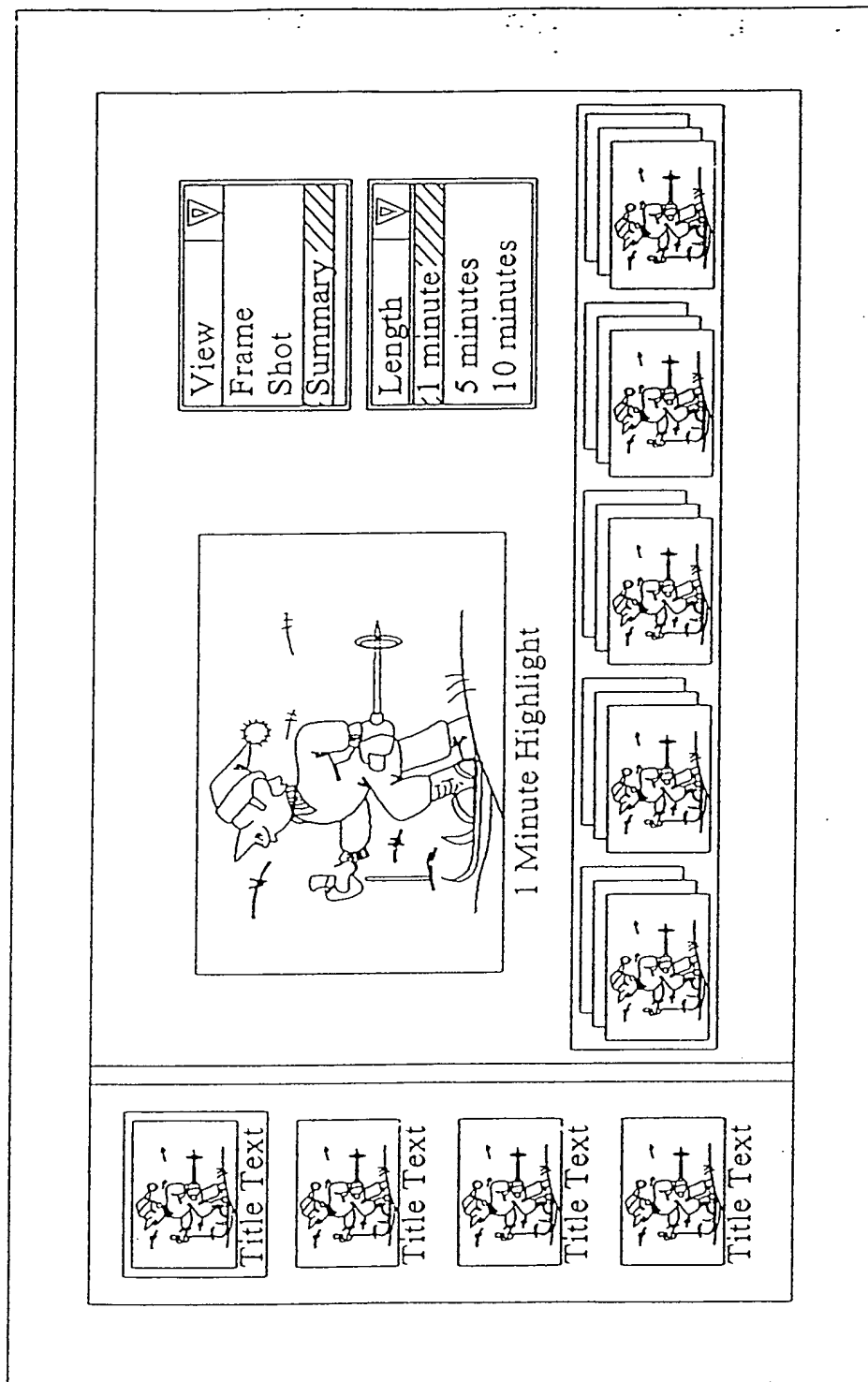


FIG. 10

Event View

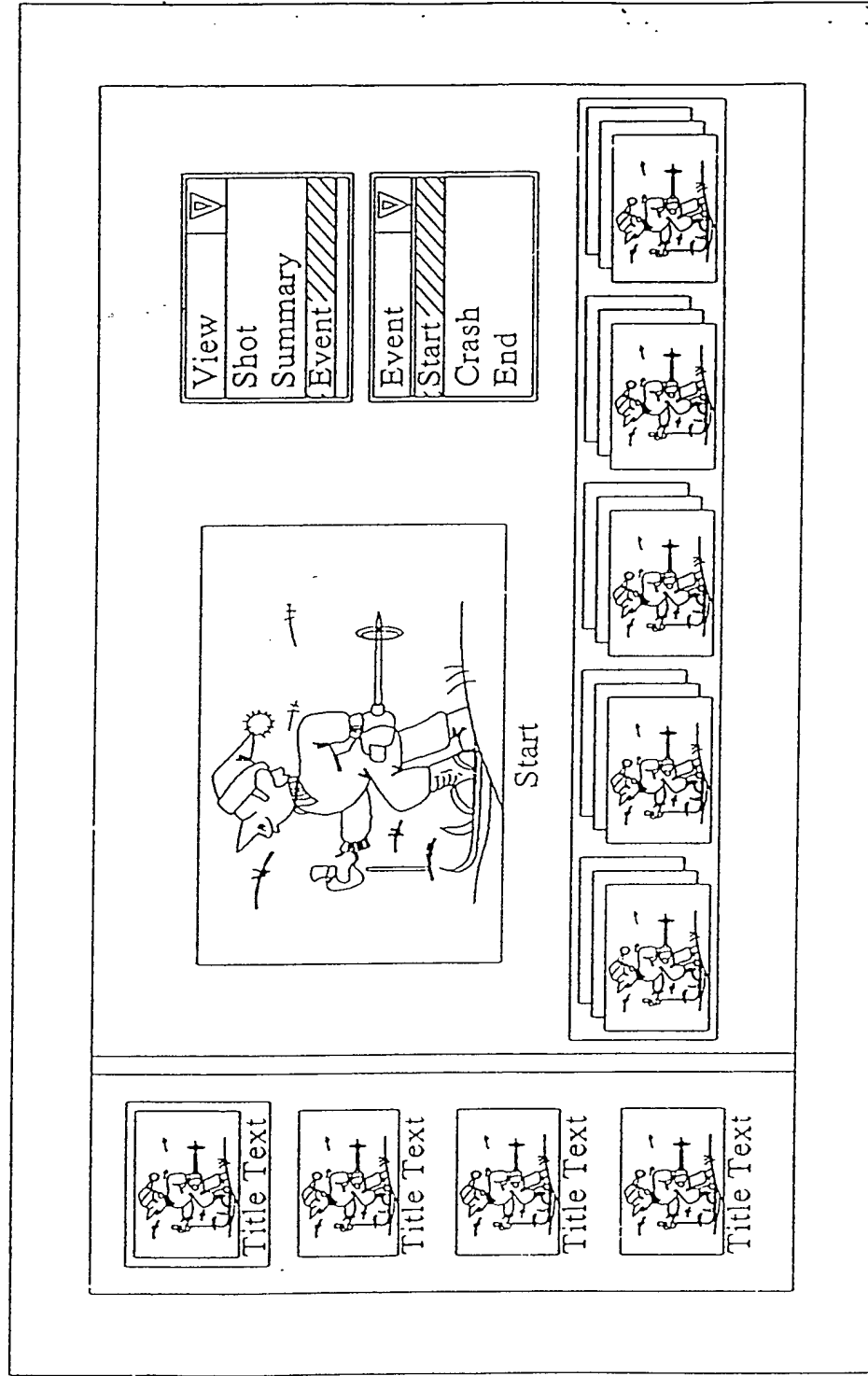


FIG. 11

Character/Object View

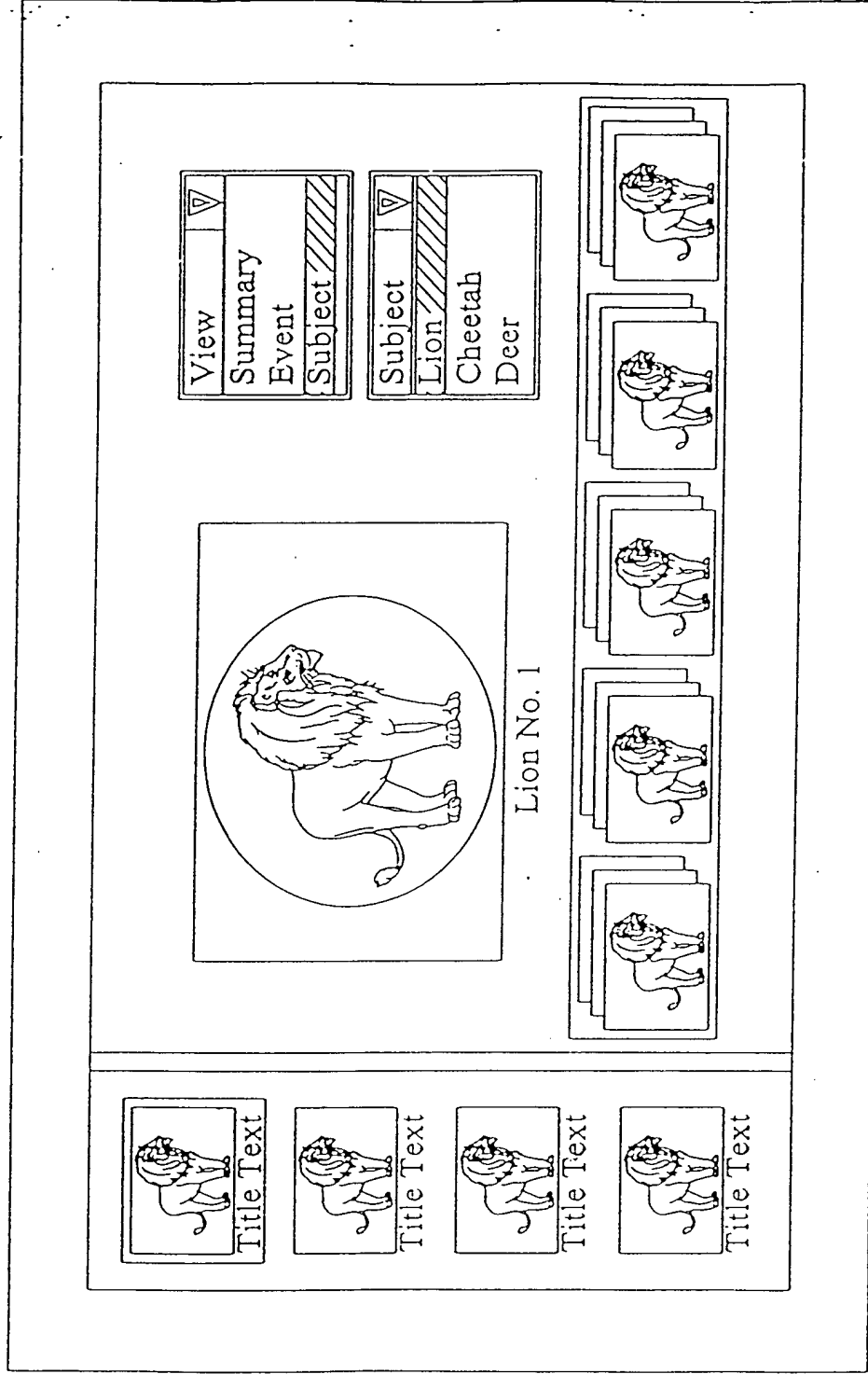


FIG. 12

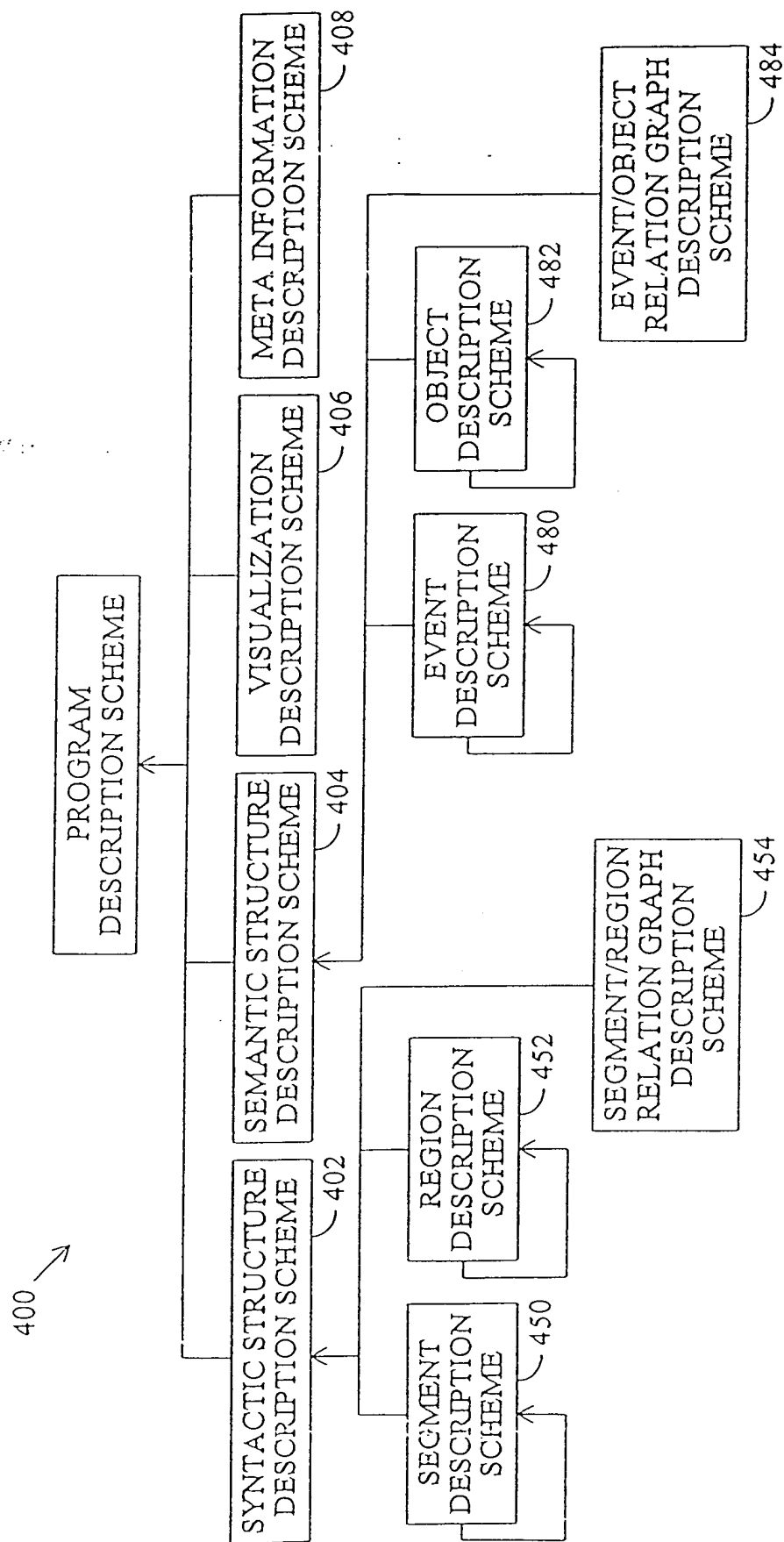


FIG. 13

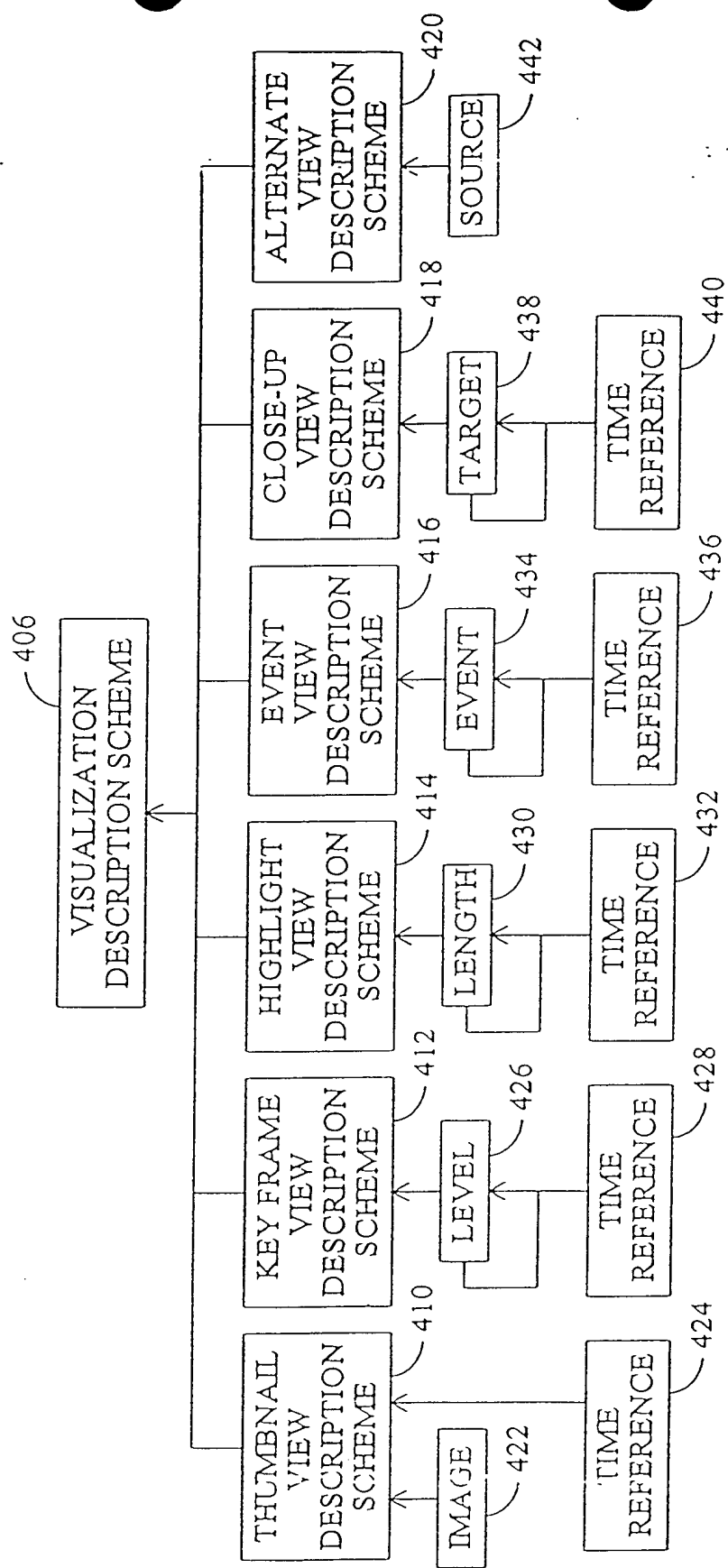


FIG. 14

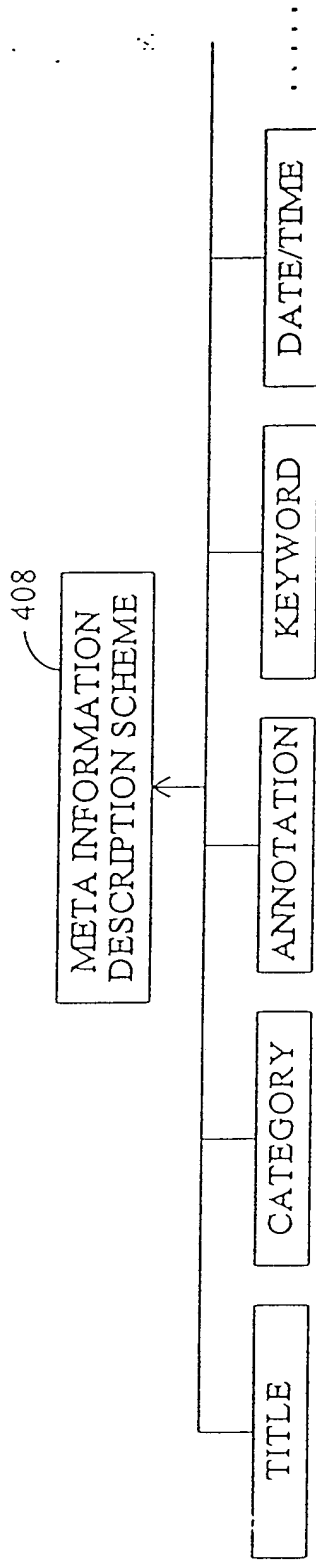


FIG. 15

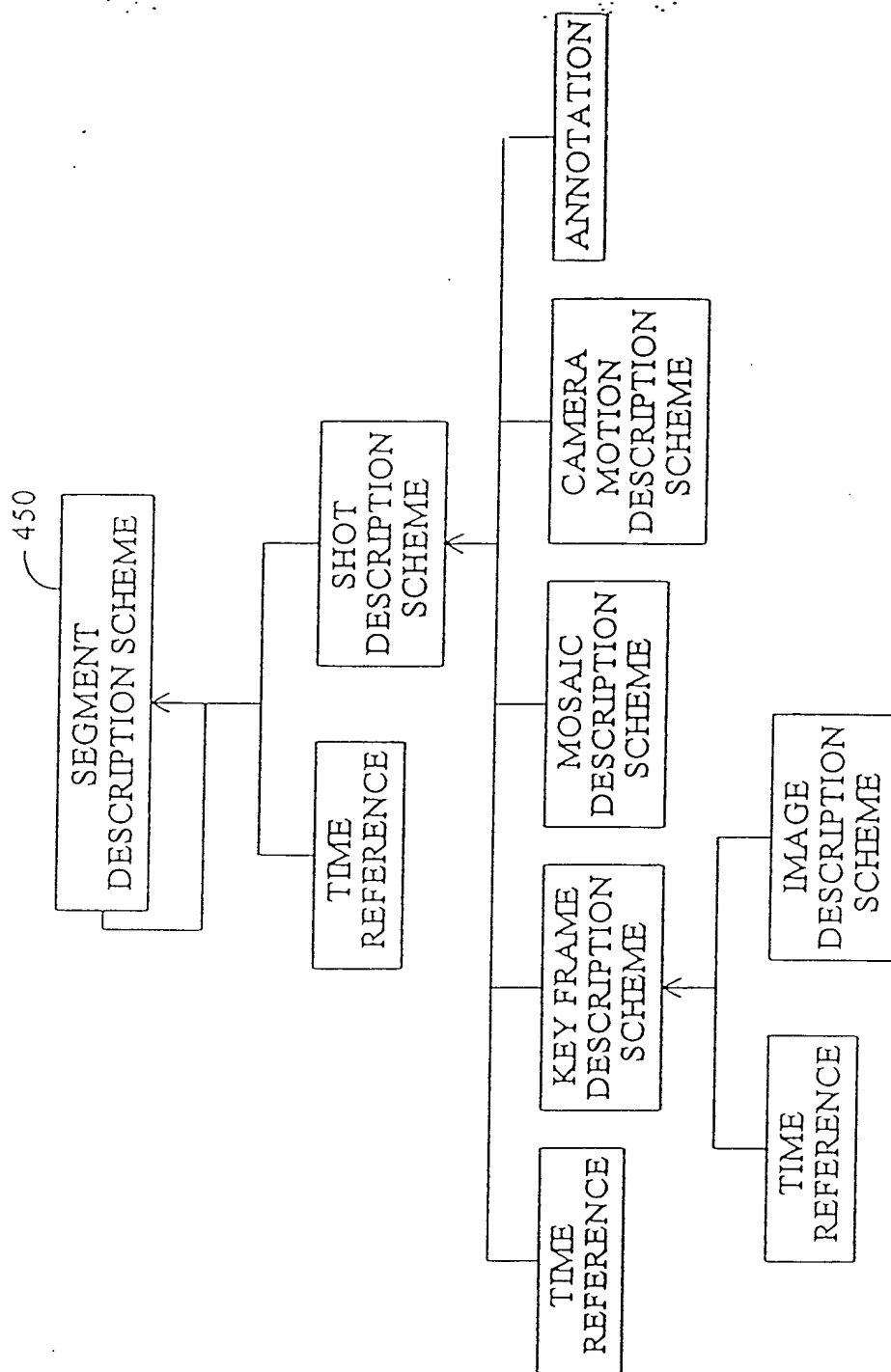


FIG. 16

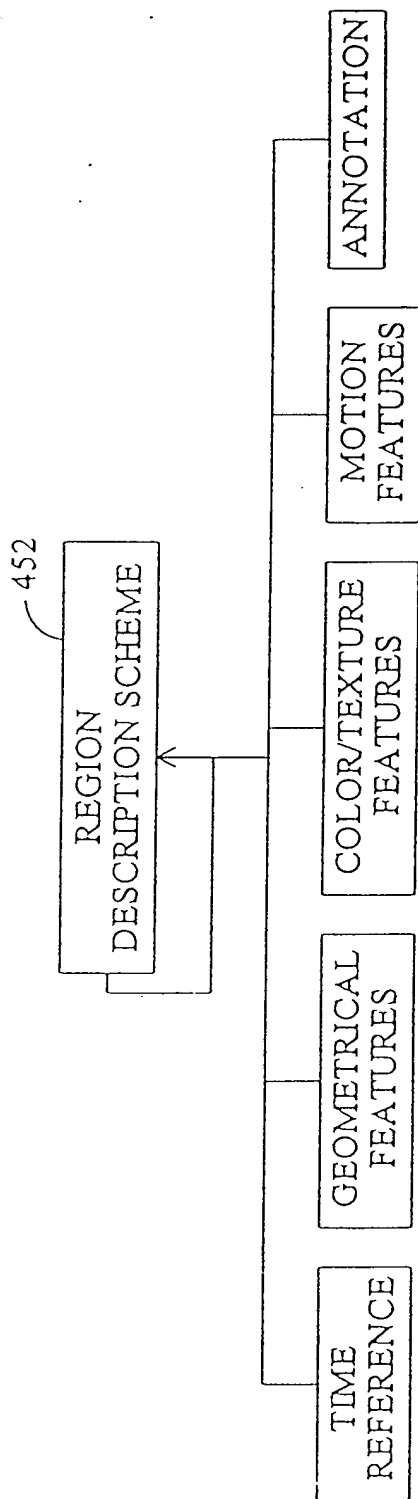


FIG. 17

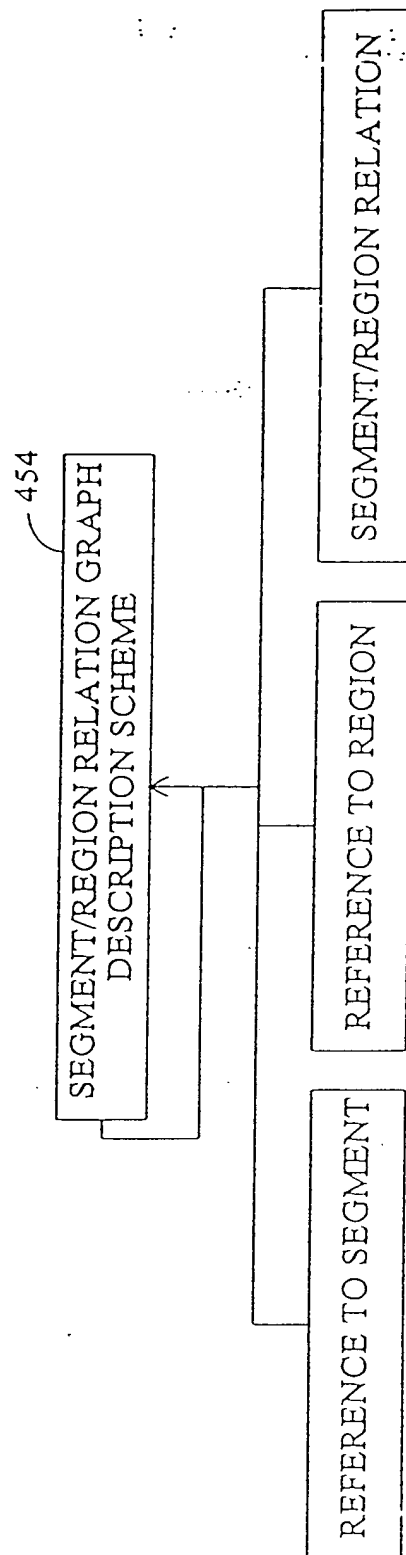


FIG. 18

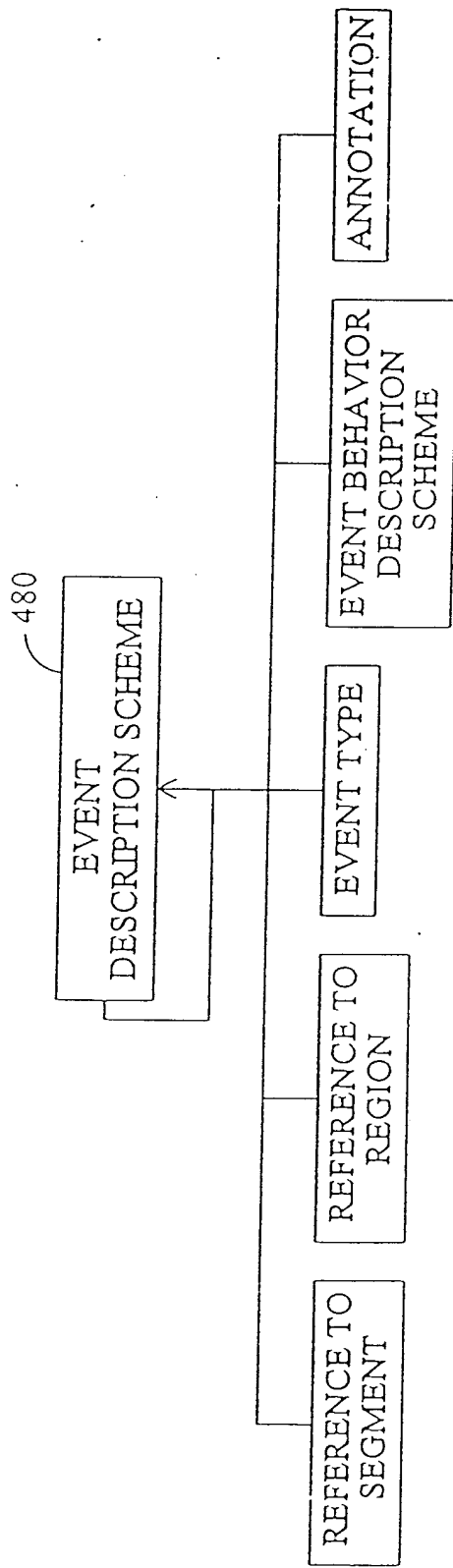


FIG. 19

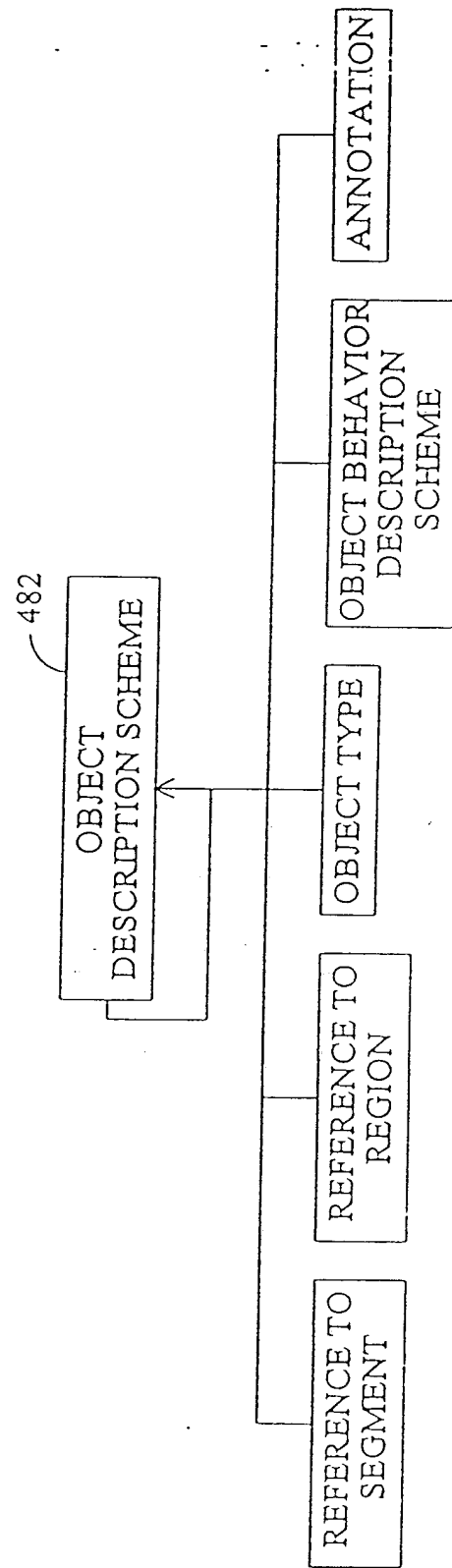


FIG. 20

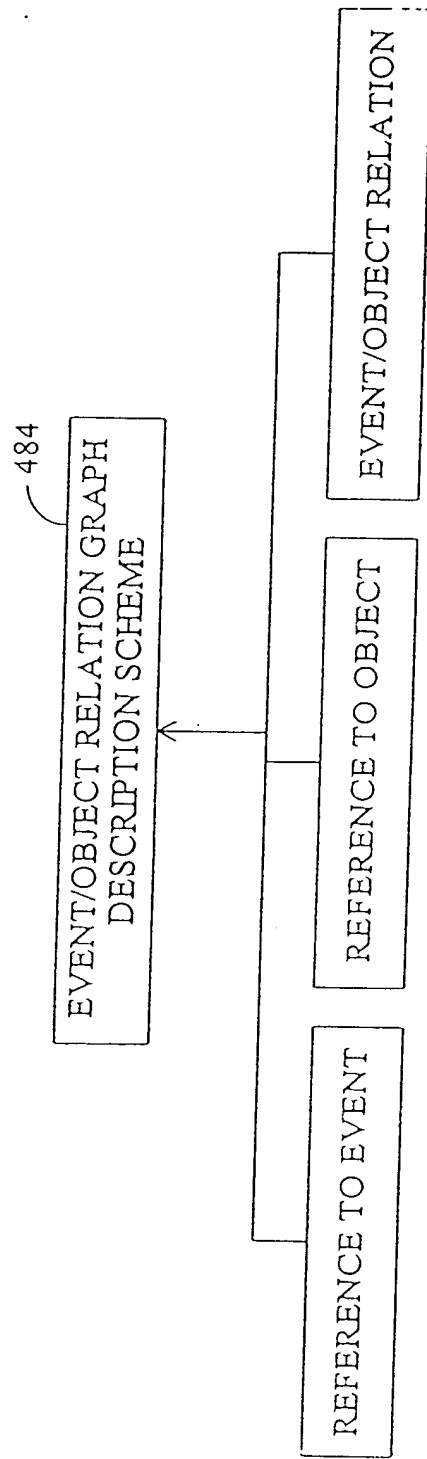


FIG. 21

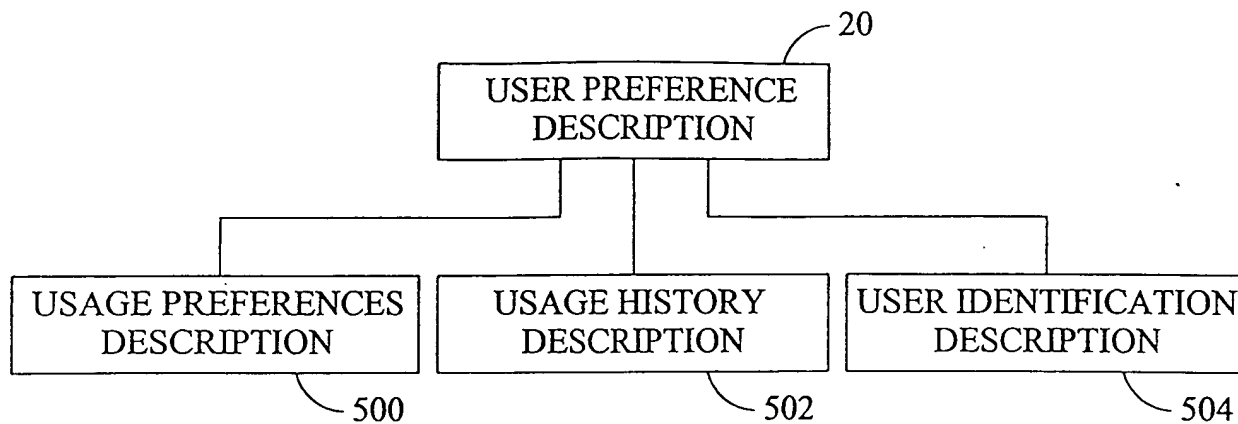


FIG. 22

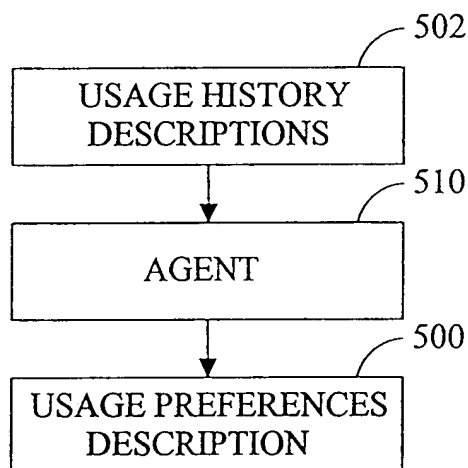


FIG. 23

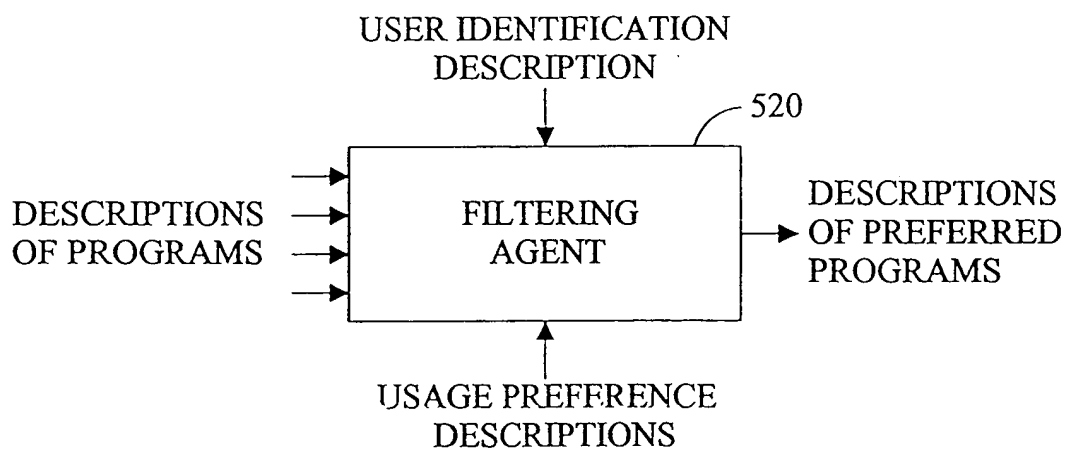


FIG. 24

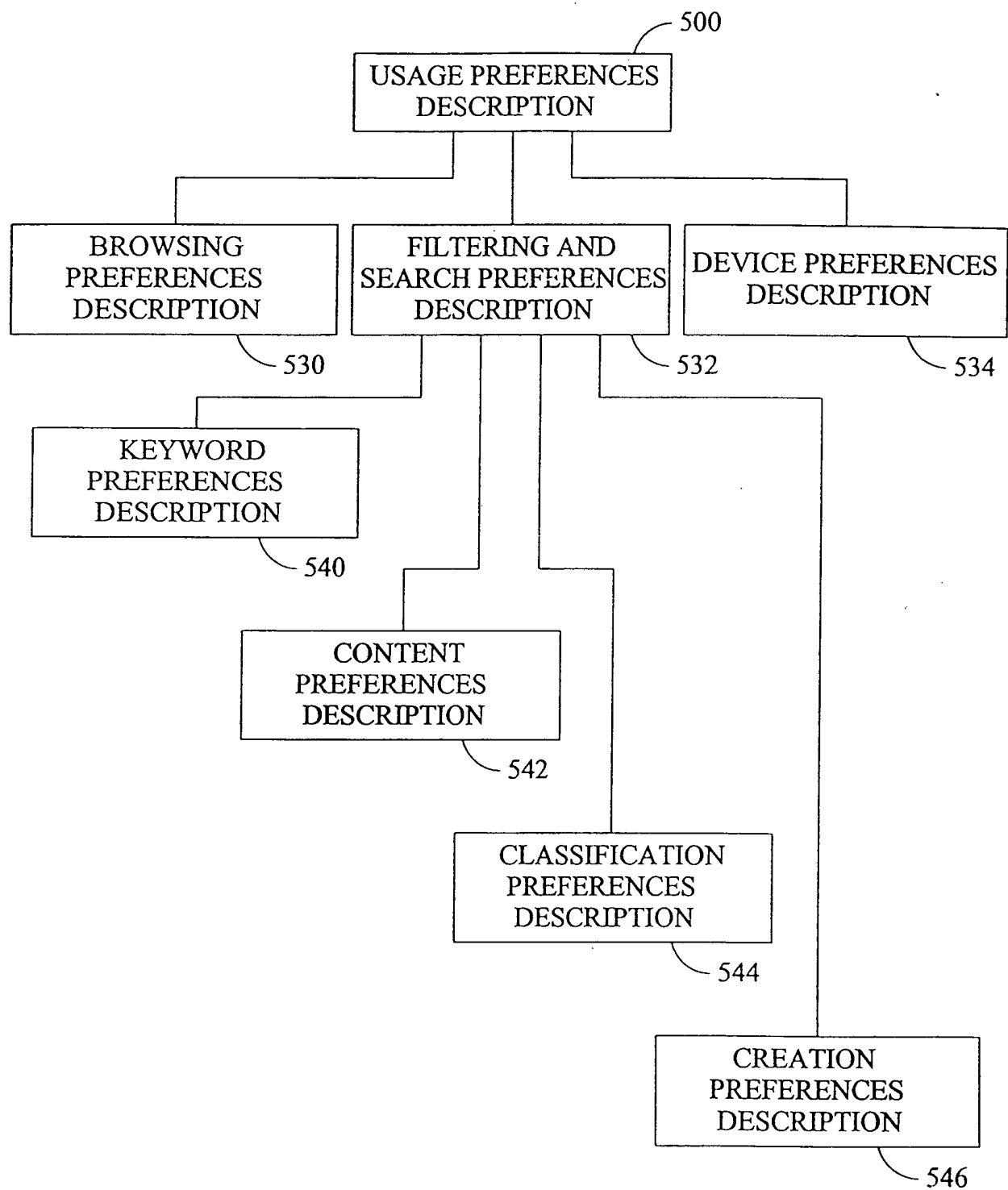


FIG. 25

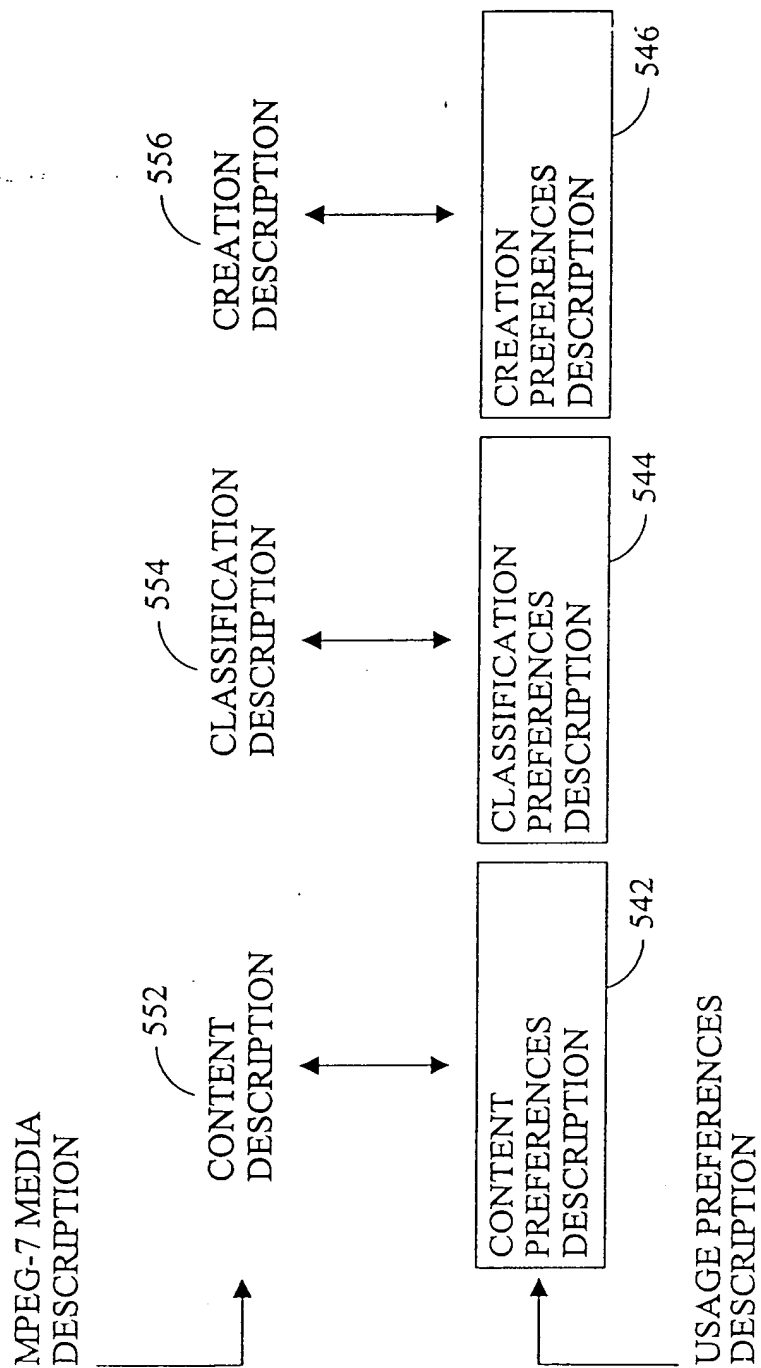


FIG. 26

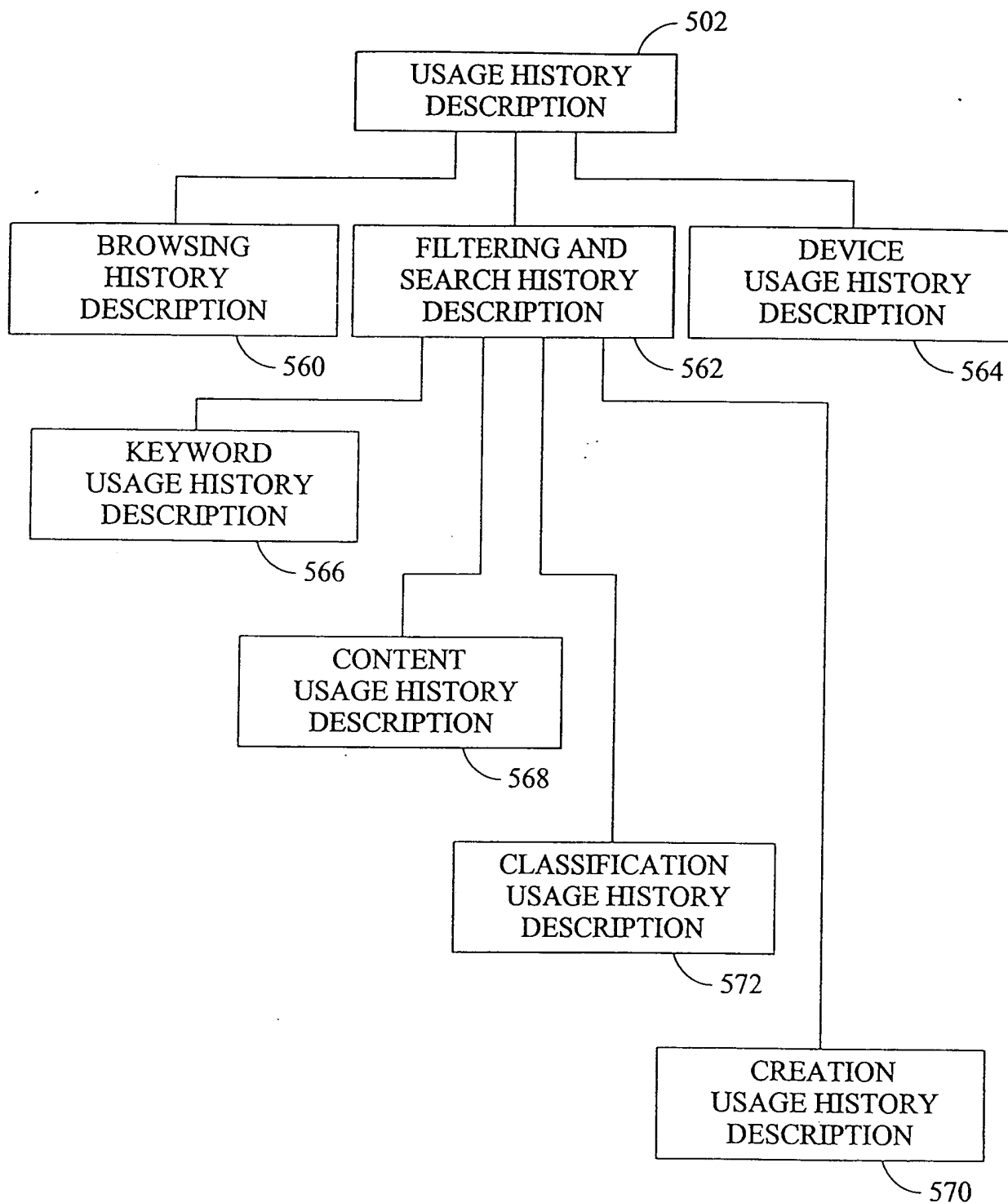


FIG. 27

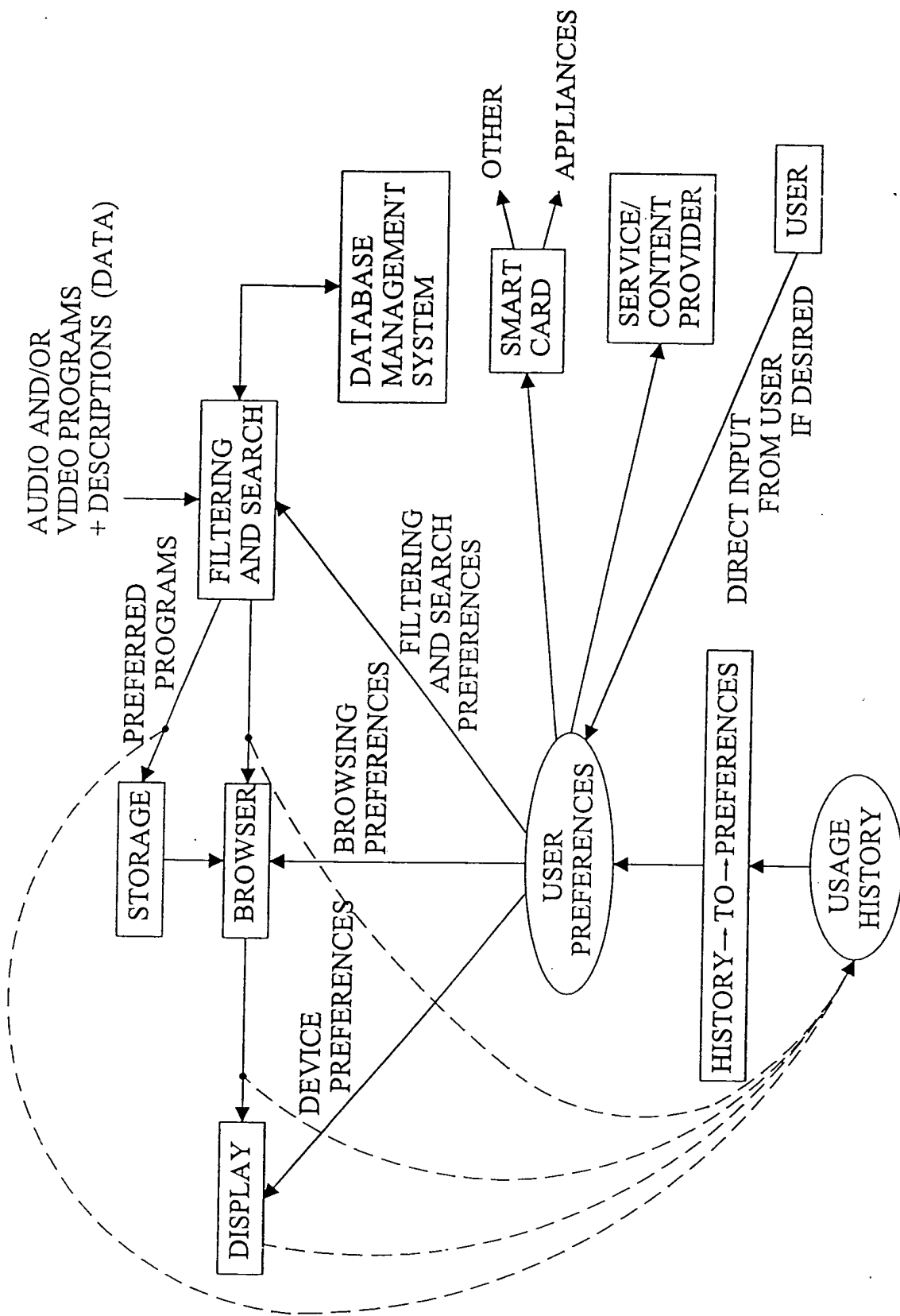


FIG. 28

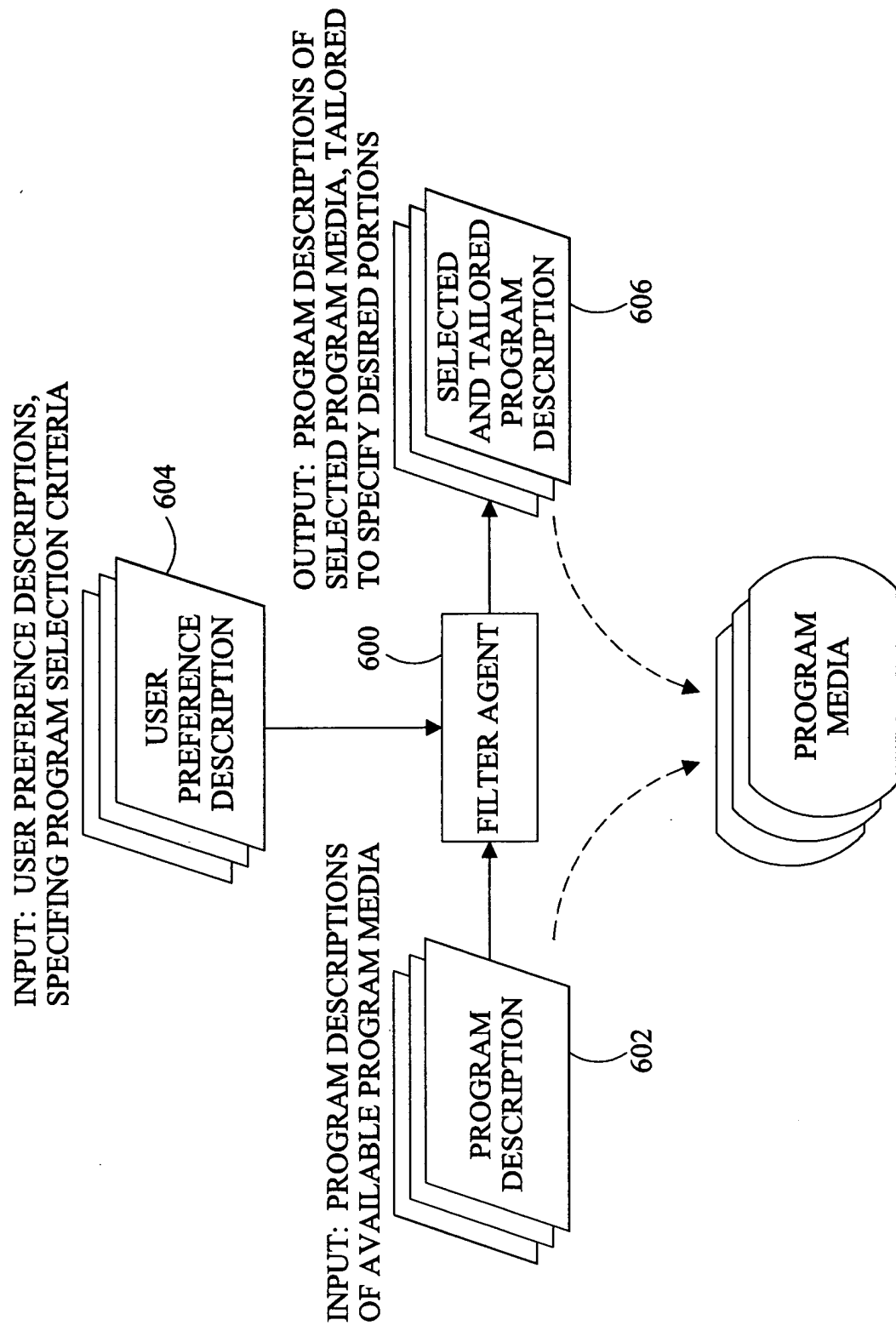
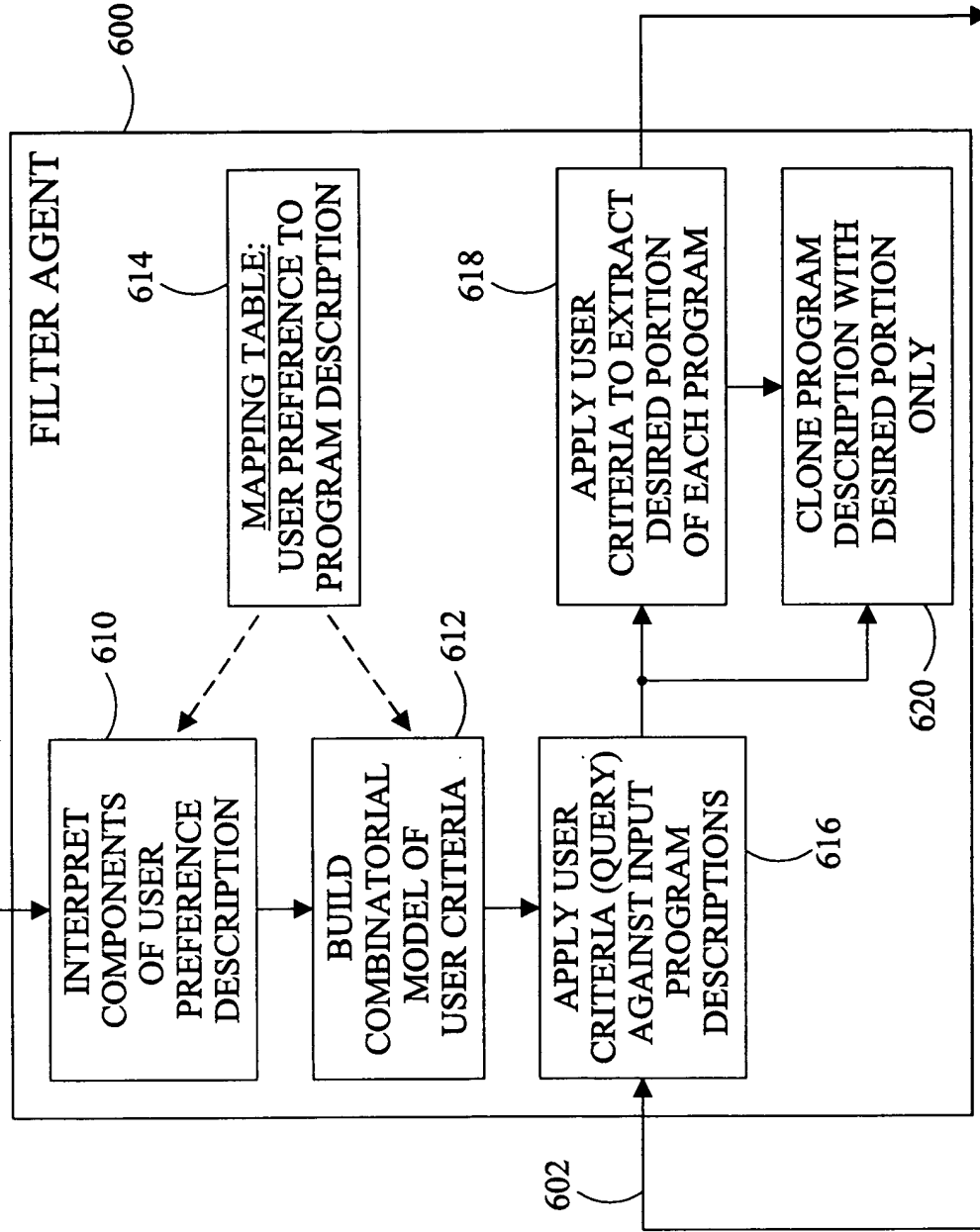


FIG. 30

FIG. 31

INPUT: USER PREFERENCE DESCRIPTIONS, SPECIFYING PROGRAM SELECTION CRITERIA



OUTPUT: PROGRAM DESCRIPTIONS OF SELECTED PROGRAM MEDIA, TAILORED TO SPECIFY DESIRED PORTIONS

Key:

Parent
Program Description
Element

Leaf
Program Description
Element

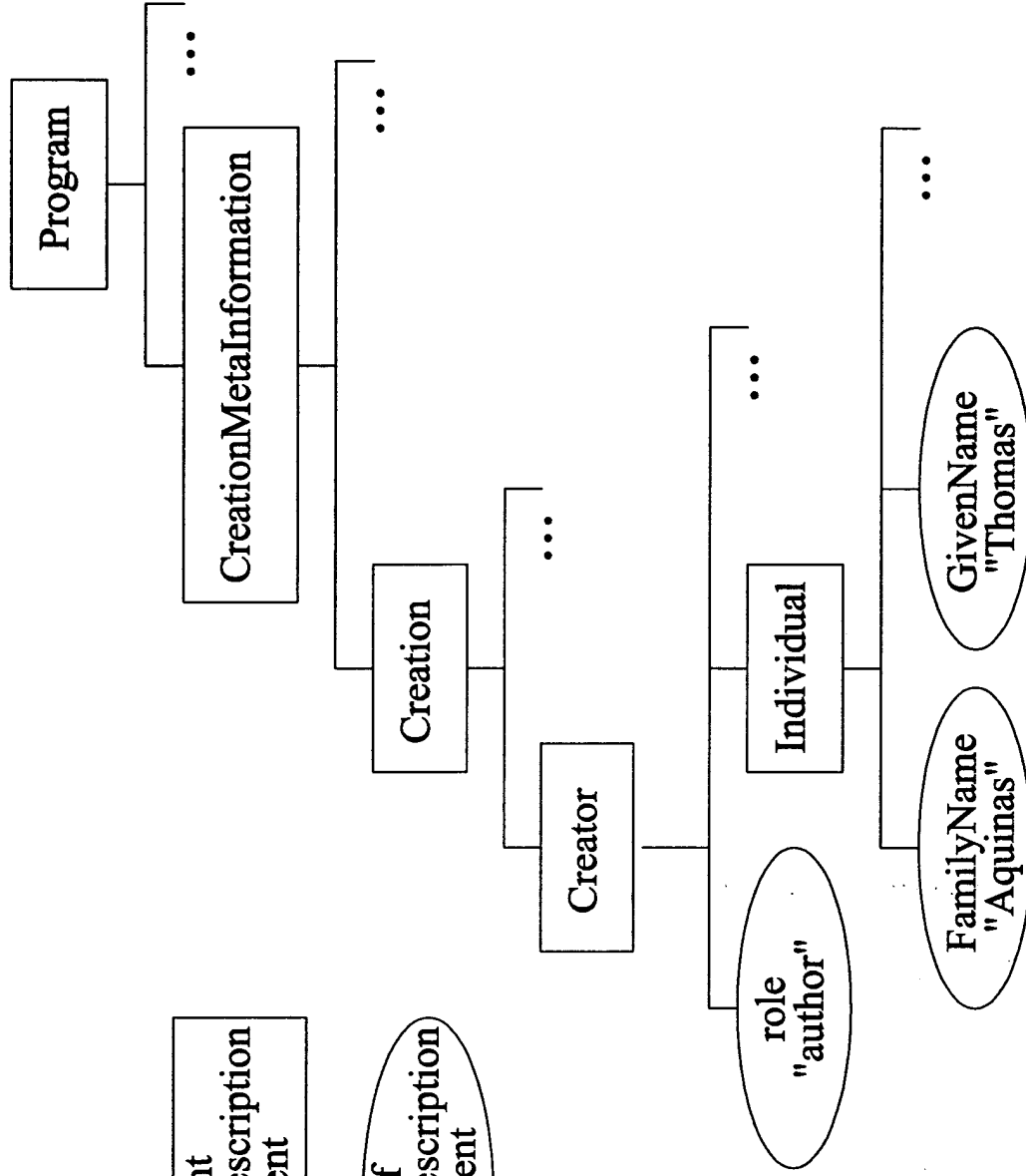


FIG. 32

Individual
Preference

Preference Name	Preference Value
--------------------	---------------------

FIG. 33

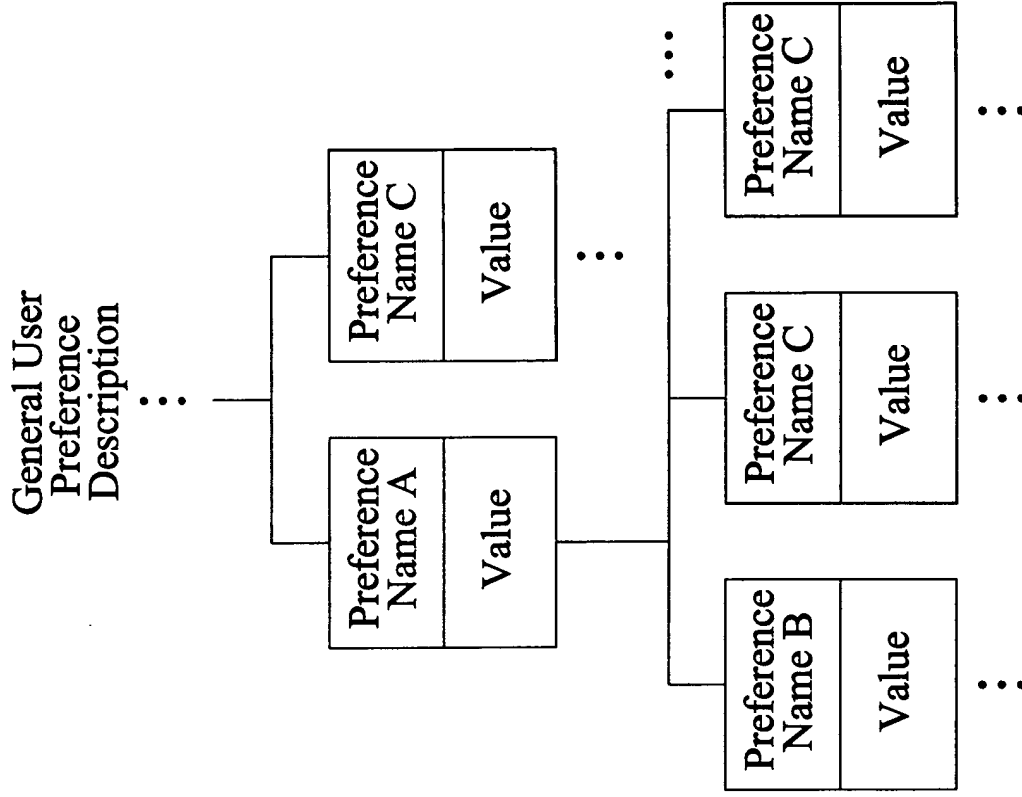


FIG. 34

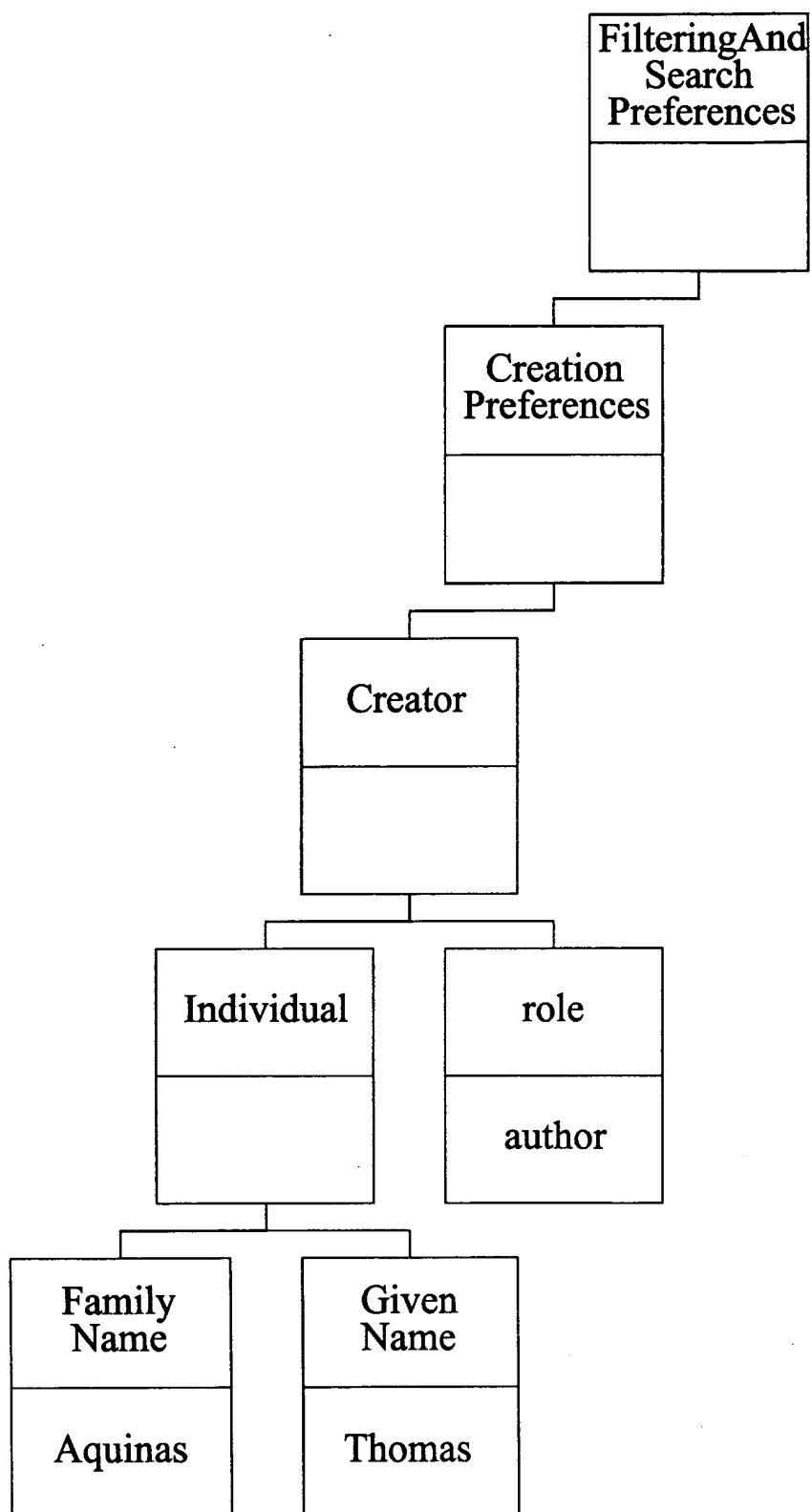


FIG. 35

<u>Name</u>	<u>Location</u>	<u>TestOp</u>	<u>InterOp</u>	<u>IntraOp</u>
FilteringAndSearch Preferences/ CreationPreferences	/Program /*CreationMetaInformation /*Creation	match-case-insens	AND	AND
Creator/role	/*Creator/role	NULL	CAND	OR
Creator/Individual/ FamilyName	/*Creator/Individual /FamilyName	substring-case-insens	CAND	OR
Creator/Individual/ GivenName	/*Creator/Individual /*GivenName	substring-case-insens	CAND	OR

FIG. 36

Test Operator	Description
substring-case-insensitive	Test that the preference value string [is a substring of] / [matches] the Program Description element value, [with] / [without] being case sensitive.
substring-case-sensitive	
string-match-case-insensitive	
string-match-case-sensitive	
value-less-than	Test that the Program Description element value converted to a number is [$<$, $<=$, $>$, $>=$, $=$, $>$, $<$, $>=$, $<=$, \sim] the preference value converted to number[s]. In the case of range tests ($>$, $<$, $>=$, $<=$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
value-less-than-or-equal	
value-greater-than	
value-greater-than-or-equal	
value-equal	
value-greater-than-less-than	
value-greater-than-equal-less-than-equal	
value-approximately	
count-less-than	Test that the quantity of Program Description elements is [$<$, $<=$, $>$, $>=$, $>$, $<$, \sim] the preference value converted to number[s]. In the case of range tests ($>$, $<$), the preference value is assumed to be a pair of comma-delimited numbers. The approximate operator may have a second number describing the rolloff from the target number.
count-greater-than	
count-equal	
count-greater-than-less-than	
count-approximately	

FIG. 37

Combinatorial Operator	Description
AND	The result of this Individual Preference test is boolean ANDed with others. If all the results in this combination are non-zero, the combined result is one, otherwise zero.
OR	The result of this Individual Preference test is boolean ORed with others. If any of the results in this combination are non-zero, the combined result is one, otherwise zero.
CAND	The Individual Preferences in this combination are evaluated form a Constrained common node. If all the results in this combination are non-zero, the combined result is one, otherwise zero.
MAX	The result of this Individual Preference test is combined arithmetically in a Maximum function with others. The combined result is the largest of all the results in this combination.
MIN	The result of this Individual Preference test is combined arithmetically in a Minimum function with others. The combined result is the smallest of all the results in this combination.
PROD	The result of this Individual Preference test is combined arithmetically in a Product function with others. The combined result is the product of all the results in this combination.
SAND	The result of this Individual Preference test is fuzzy ANDed with others. The combined result is the product of all the fuzzy-transformed (mapped to an S-curve profile) results.
SUM	The result of this Individual Preference test is combined arithmetically in a Sum function with others. The combined result is the sum of all the results in this combination. The result may be further bounded to a maximum result value.
FREQ	The result of this Individual Preference test is boolean counted with others, and the sum is normalized. The combined result is the count of all non-zero results, divided by a fixed maximum frequency number. The result may be further bounded to a maximum result value.
RATIO	The result of this Individual Preference test is boolean counted with others, and the sum is normalized by the number of Individual Preference tests in this combination. The combined result is the count of all non-zero results, divided by the count of all results.

FIG. 38

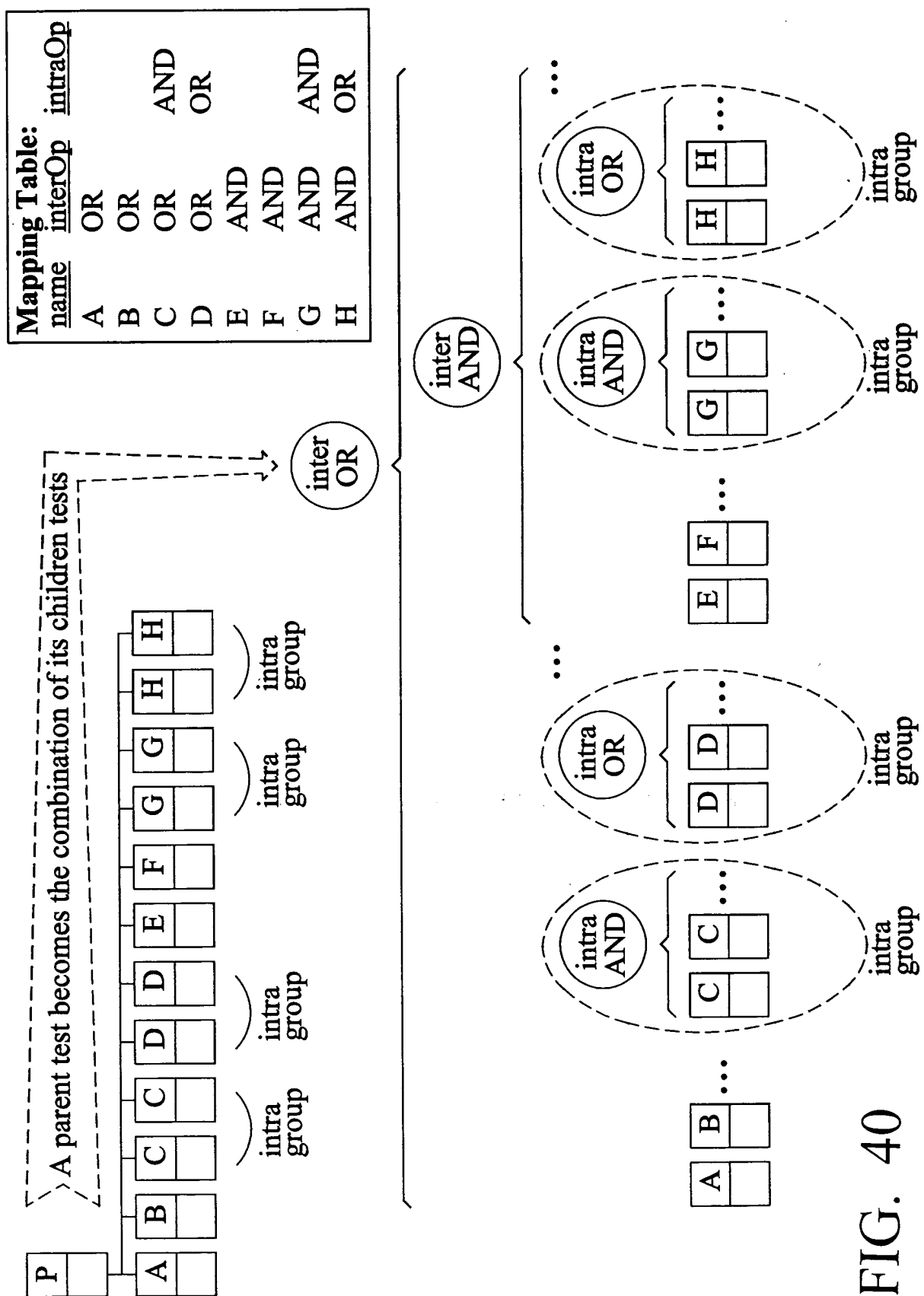


FIG. 40

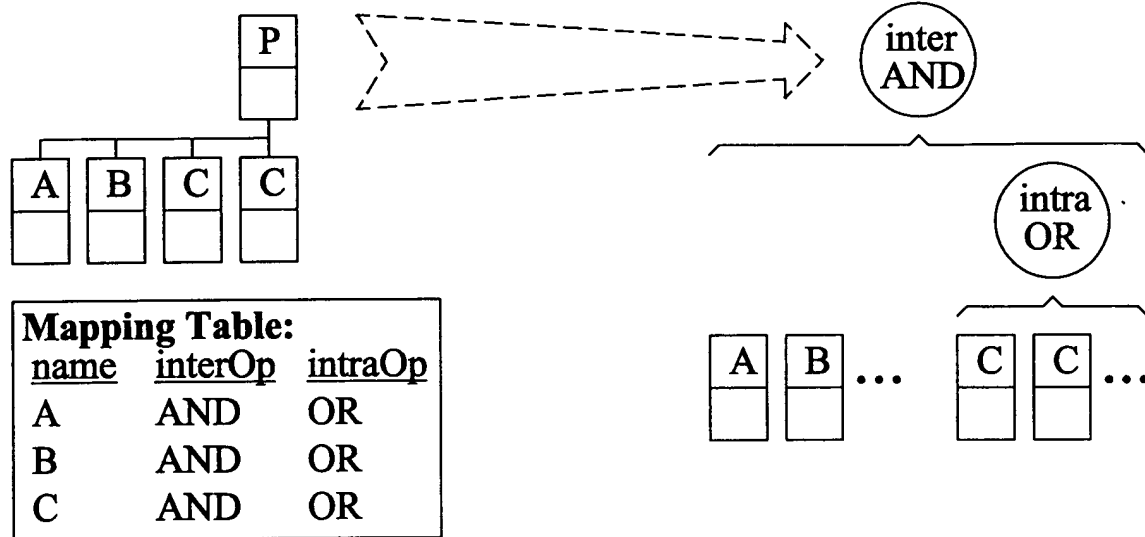


FIG. 41

Mapping Table:

<u>name</u>	<u>interOp</u>	<u>intraOp</u>
R (root)	AND	OR
D	AND	AND
P (parent)	AND	OR
A	AND	OR
B	AND	OR

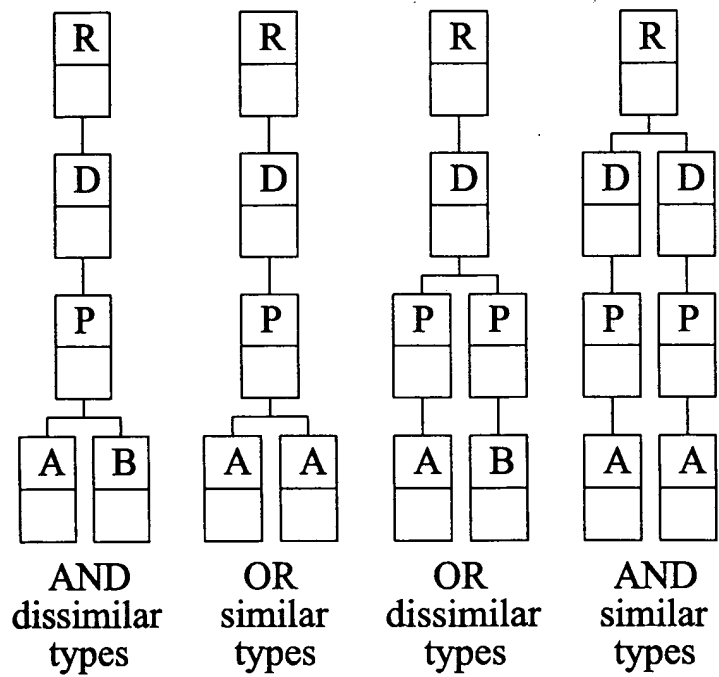
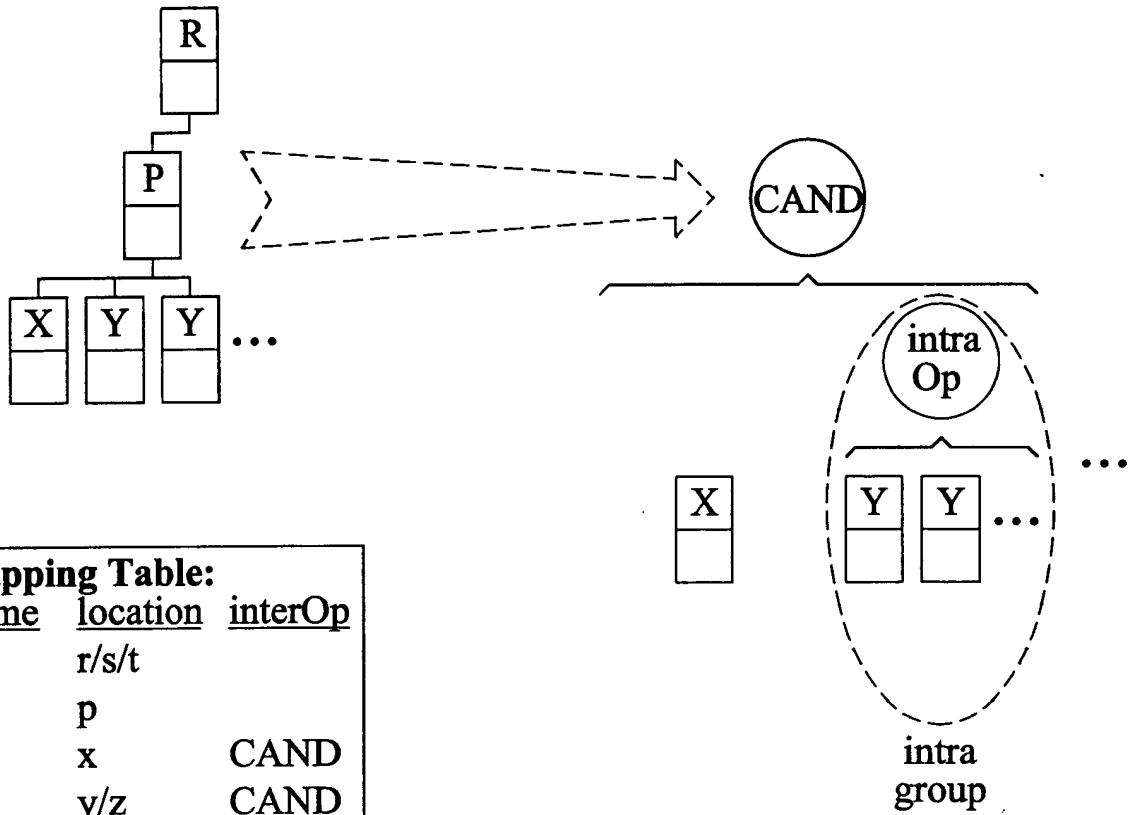


FIG. 42

User Preference Description



Mapping Table:

<u>name</u>	<u>location</u>	<u>interOp</u>
R	r/s/t	
P	p	
X	x	CAND
Y	y/z	CAND

Program Description

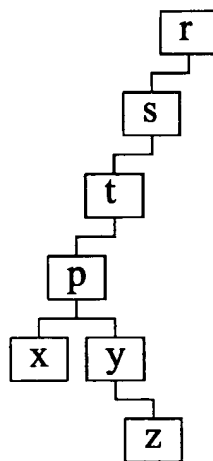


FIG. 43

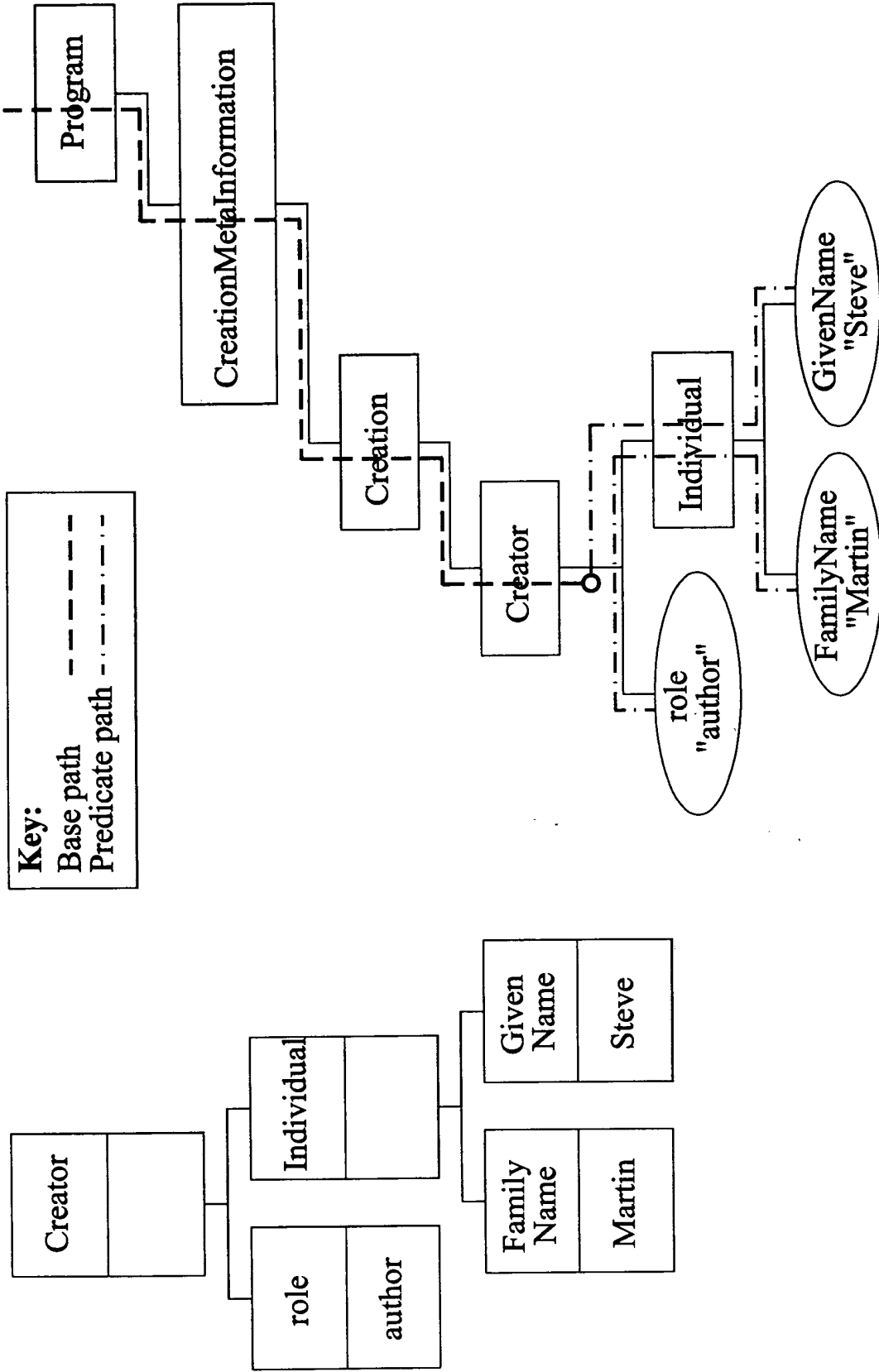


FIG. 44A

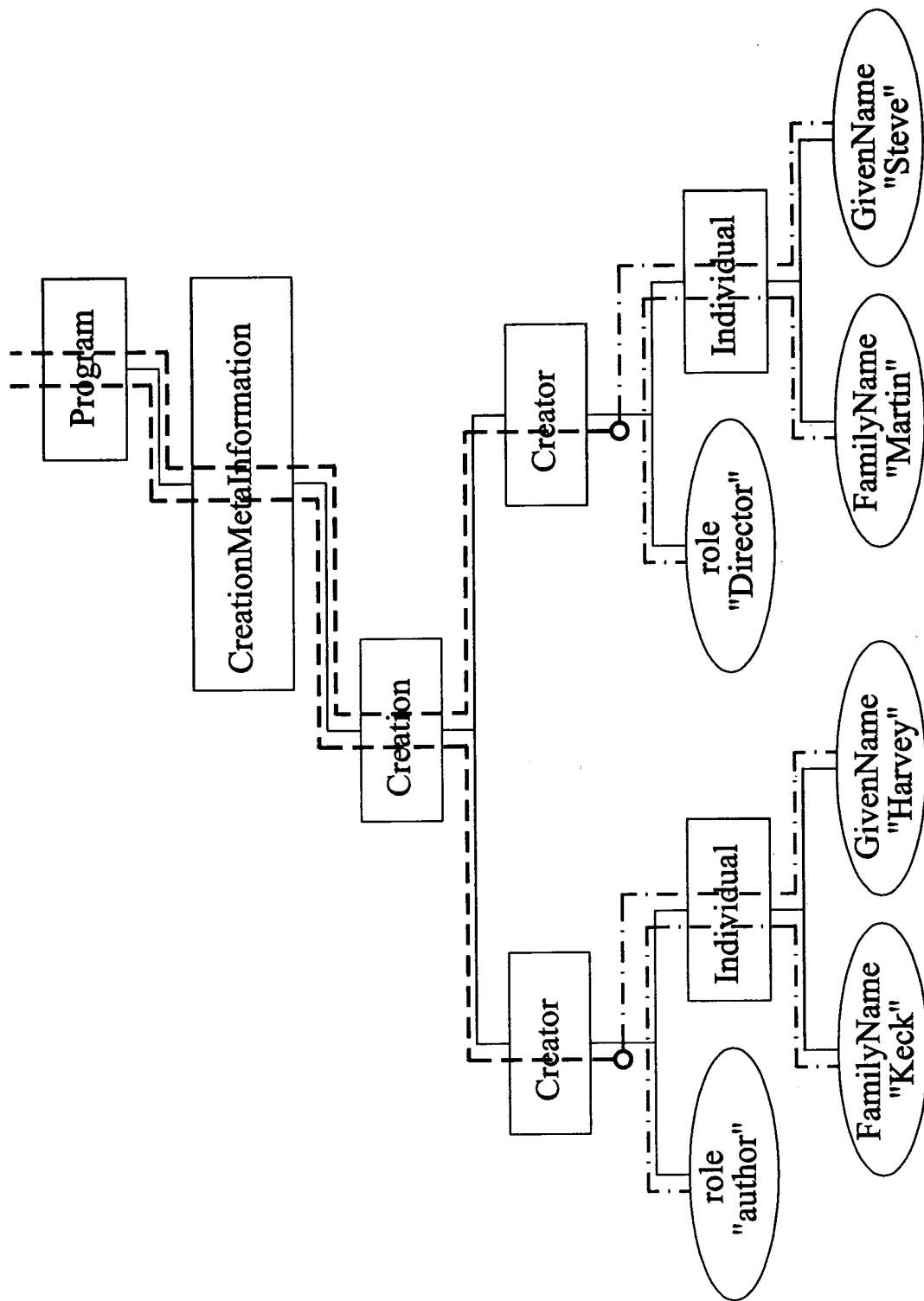


FIG. 44B

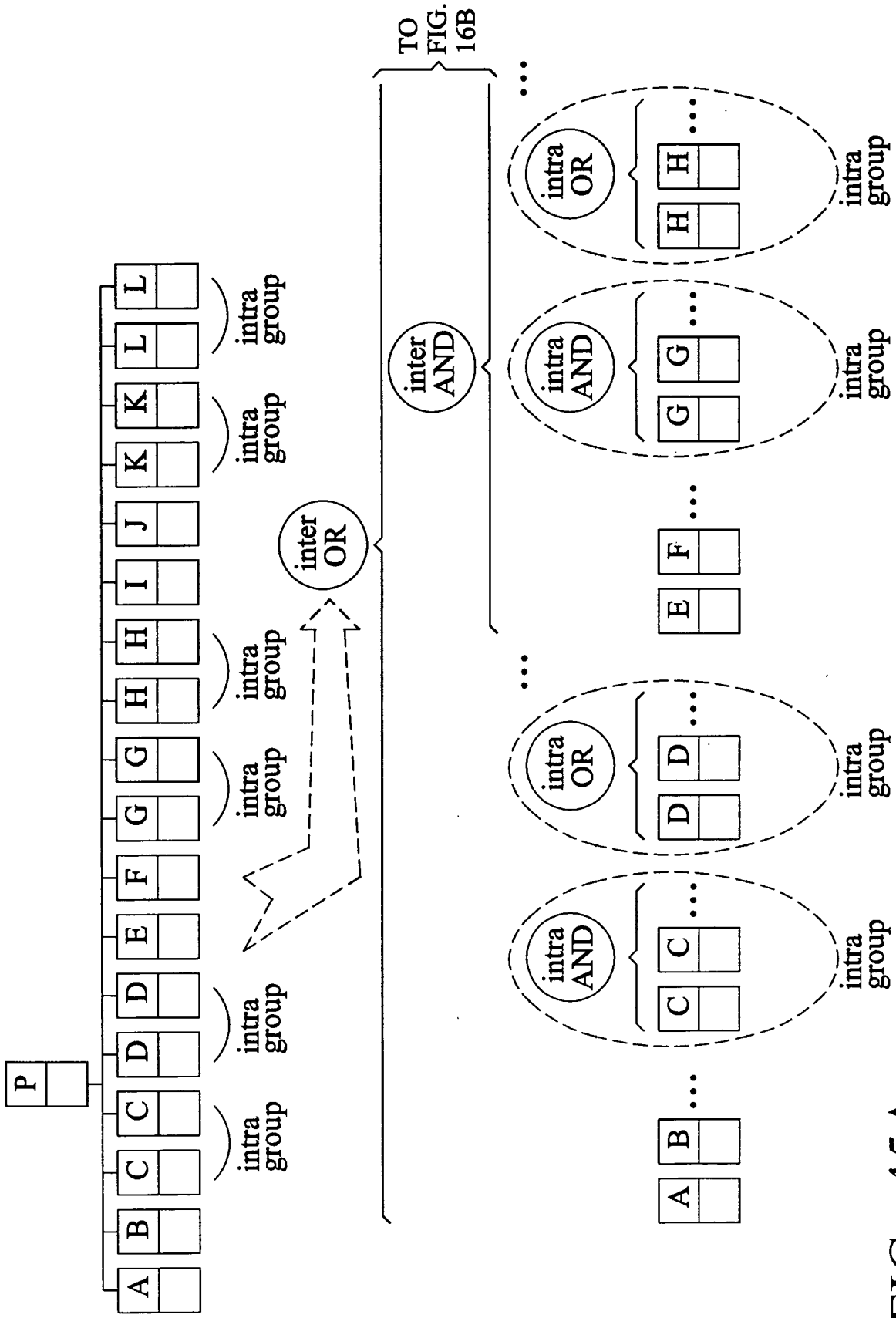
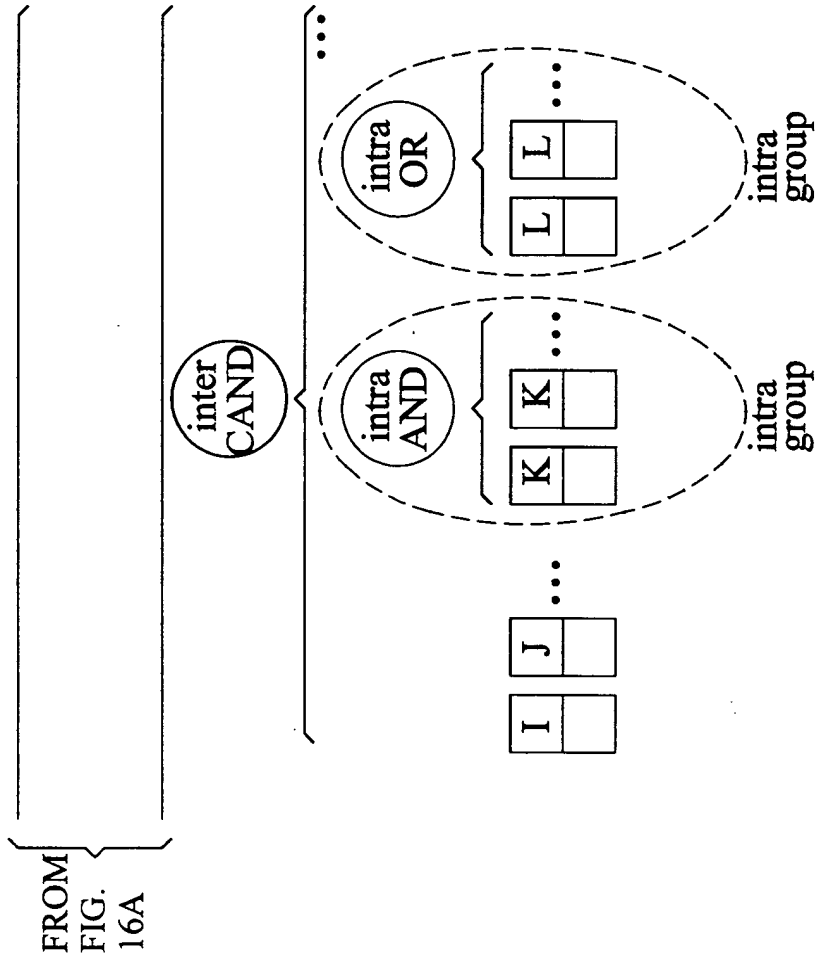


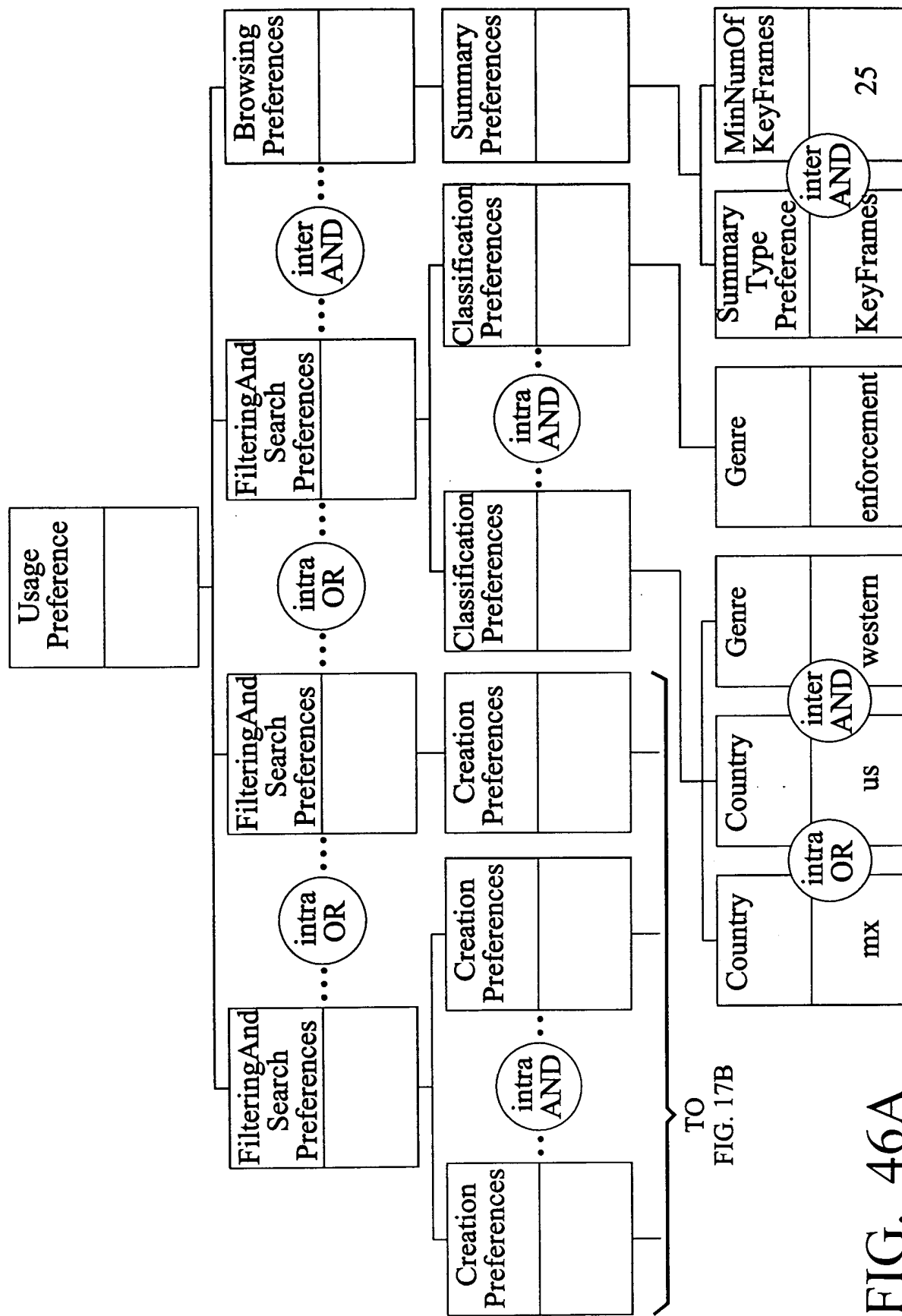
FIG. 45A



Mapping Table:			
name	interOp	intraOp	
A	OR		
B	OR		
C	OR	AND	
D	OR	OR	
E	AND		
F	AND		
G	AND	AND	
H	AND	OR	
E	CAND		
F	CAND		
G	CAND	AND	
H	CAND	OR	

FIG. 45B

Wavelength, Å	Intensity, %	h	k	l	h ² +k ² +l ²	d, Å	g, Å ⁻¹
3172.2	100	0	0	2	4	15.81	0.06325
3172.2	100	0	0	-2	4	15.81	0.06325
3172.2	100	0	2	0	4	15.81	0.06325
3172.2	100	0	-2	0	4	15.81	0.06325
3172.2	100	2	0	0	4	15.81	0.06325
3172.2	100	-2	0	0	4	15.81	0.06325
3172.2	100	0	0	4	16	12.62	0.07923
3172.2	100	0	0	-4	16	12.62	0.07923
3172.2	100	0	4	0	16	12.62	0.07923
3172.2	100	0	-4	0	16	12.62	0.07923
3172.2	100	4	0	0	16	12.62	0.07923
3172.2	100	-4	0	0	16	12.62	0.07923
3172.2	100	0	0	6	36	8.33	0.12005
3172.2	100	0	0	-6	36	8.33	0.12005
3172.2	100	0	6	0	36	8.33	0.12005
3172.2	100	0	-6	0	36	8.33	0.12005
3172.2	100	6	0	0	36	8.33	0.12005
3172.2	100	-6	0	0	36	8.33	0.12005
3172.2	100	0	0	8	64	6.49	0.15401
3172.2	100	0	0	-8	64	6.49	0.15401
3172.2	100	0	8	0	64	6.49	0.15401
3172.2	100	0	-8	0	64	6.49	0.15401
3172.2	100	8	0	0	64	6.49	0.15401
3172.2	100	-8	0	0	64	6.49	0.15401
3172.2	100	0	0	10	100	5.17	0.19318
3172.2	100	0	0	-10	100	5.17	0.19318
3172.2	100	0	10	0	100	5.17	0.19318
3172.2	100	0	-10	0	100	5.17	0.19318
3172.2	100	10	0	0	100	5.17	0.19318
3172.2	100	-10	0	0	100	5.17	0.19318
3172.2	100	0	0	12	144	4.33	0.23004
3172.2	100	0	0	-12	144	4.33	0.23004
3172.2	100	0	12	0	144	4.33	0.23004
3172.2	100	0	-12	0	144	4.33	0.23004
3172.2	100	12	0	0	144	4.33	0.23004
3172.2	100	-12	0	0	144	4.33	0.23004
3172.2	100	0	0	14	196	3.77	0.26612
3172.2	100	0	0	-14	196	3.77	0.26612
3172.2	100	0	14	0	196	3.77	0.26612
3172.2	100	0	-14	0	196	3.77	0.26612
3172.2	100	14	0	0	196	3.77	0.26612
3172.2	100	-14	0	0	196	3.77	0.26612
3172.2	100	0	0	16	256	3.37	0.29982
3172.2	100	0	0	-16	256	3.37	0.29982
3172.2	100	0	16	0	256	3.37	0.29982
3172.2	100	0	-16	0	256	3.37	0.29982
3172.2	100	16	0	0	256	3.37	0.29982
3172.2	100	-16	0	0	256	3.37	0.29982
3172.2	100	0	0	18	324	3.05	0.32783
3172.2	100	0	0	-18	324	3.05	0.32783
3172.2	100	0	18	0	324	3.05	0.32783
3172.2	100	0	-18	0	324	3.05	0.32783
3172.2	100	18	0	0	324	3.05	0.32783
3172.2	100	-18	0	0	324	3.05	0.32783
3172.2	100	0	0	20	400	2.81	0.35499
3172.2	100	0	0	-20	400	2.81	0.354



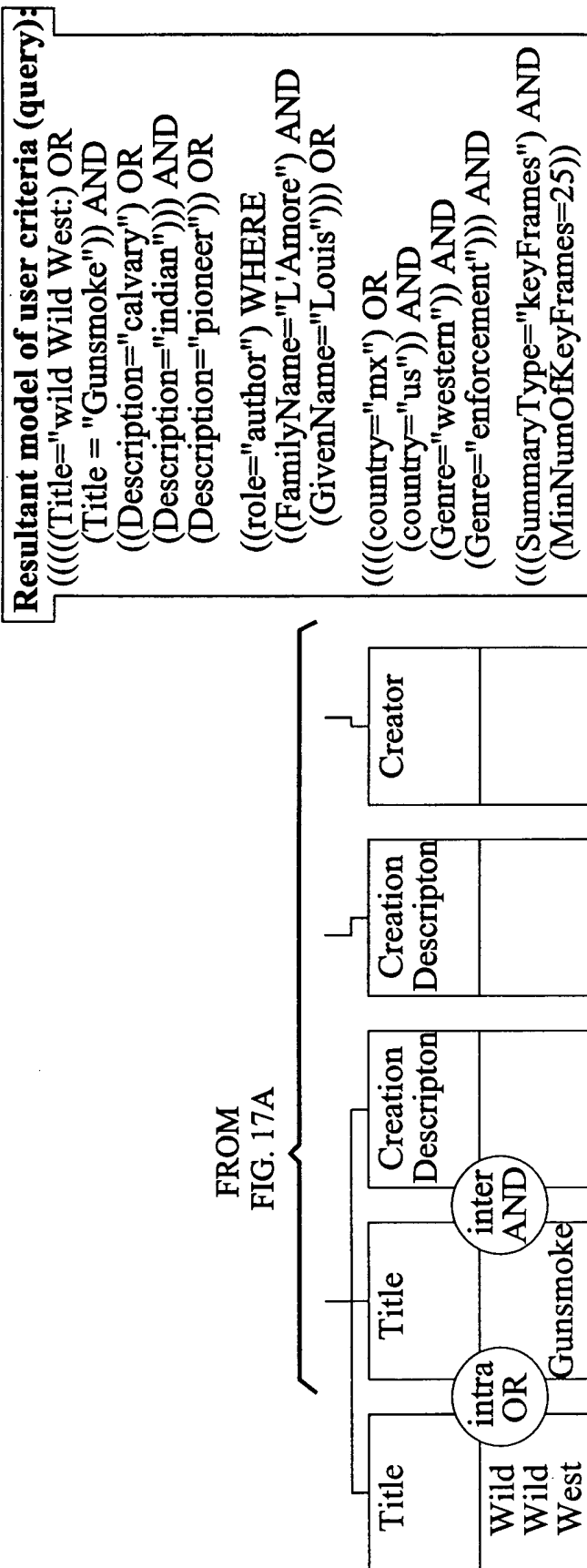


FIG. 46B

Name	Location		TestOp InterOp IntraOp			
Level 0 Preferences						
FilteringAndSearchPreferences	null		NA	NA	OR	OR
BrowsingPreferences	null		NA	NA	OR	OR
Level 1 Preferences						
Children of FilteringAndSearchPreferences						
CreationPreferences		/Program/*CreationMetaInformation /*Creation	NA	AND	AND	AND
ClassificationPreferences		/Program/*CreationMetaInformation /*Classification	NA	AND	AND	AND
SourcePreferences		/Program/*UsageMetaInformation	NA	AND	AND	AND
ClassificationPreferences/Country		/Program/*CreationMetaInformation /*Classification/*Country	STR_ISUB	AND	AND	OR
Children of BrowsingPreferences						
SummaryPreferences		/Program/*Summarization	NA	AND	AND	AND
Level 2 Preferences						
Children of CreationPreferences						
Title		/*Title/TitleText	STR_ISUB	AND	AND	OR
CreationDescription		/*CreationDescription	NA	AND	AND	OR
Creator		/*Creator	NA	AND	AND	OR
CreationLocation		/*CreationLocation	NA	AND	AND	OR
CreationDate		/*CreationDate	NA	AND	AND	OR
CreationMaterial		/*CreationMaterial	NA	AND	AND	OR
CreationLocation/Country		/*CreationLocation/Country	STR_ISUB	AND	AND	OR
Children of ClassificationPreferences						
Language		/*Language	STR_ISUB	AND	AND	OR
Genre		/*Genre	STR_ISUB	AND	AND	OR
PackageType		/*PackageType	STR_ISUB	AND	AND	OR

FIG. 47A

Name	Location	TestOp InterOp IntraOp					
Children of SourcePreferences							
PublicationType		/*Publication/PublicationType		STR_ISUB	AND	AND	NA
Children of SummaryPreferences							
SummaryTypePreference		/*HierarchicalSummary/%summaryType		STR_ISUB	AND	AND	OR
SummaryName		/*HierarchicalSummary/%name		STR_ISUB	AND	AND	OR
NumOfKeyFrames		/*HierarchicalSummary/*HighlightLevel %numberOfKeyFrames		VAL_EQ	AND	AND	OR
MinNumOfKeyframes		/*HierarchicalSummary/*HighlightLevel %numberOfKeyFrames		VAL_GTE	AND	AND	OR
MaxNumOfKeyframes		/*HierarchicalSummary/*HighlightLevel %numberOfKeyFrames		VAL_LTE	AND	AND	OR
SmmaryDuration		/*HierarchicalSummary/*HighlightLevel /Duration		VAL_EQ	AND	AND	OR
MinSummaryDuration		/*HierarchicalSummary/*HighlightLevel /Duration		VAL_GTE	AND	AND	OR
MaxSummaryDuration		/*HierarchicalSummary/*HighlightLevel /Duration		VAL_LTE	AND	AND	OR
Level 3 Preferences							
Children of CreationDescription							
Who		/Who		STR_ISUB	AND	AND	OR
TextAnnotation		/TextAnnotation		STR_ISUB	AND	AND	OR
Children of Creator							
role		/role		STR_IEQ	CAND	NA	NA
Children of Creator, RealPerson							
Individual		/Individual		NA	AND	AND	OR
QuasiPerson		/QuasiPerson		NA	AND	AND	OR
Children of CreationLocation							

FIG. 47B

PlaceName	/PlaceName	STR	ISUB	AND	OR
PlaceRole	/PlaceRole	STR	ISUB	AND	NA
Planet	/Planet	STR	ISUB	AND	NA
GPSCoordinates	/GPSCoordinates	STR	ISUB	AND	NA
Region	/Region	STR	ISUB	AND	NA
PostingIdentifier	/PostingIdentifier	STR	ISUB	AND	NA
AdministrativeUnit	/AdministrativeUnit	STR	ISUB	AND	NA
PostalAddress	/PostalAddress	STR	ISUB	AND	NA
InternalCoordinates	/InternalCoordinates	STR	ISUB	AND	NA
<i>Children of CreationMaterial</i>					
device instrument	/device instrument	STR	ISUB	AND	NA
device setting	/device setting	STR	ISUB	AND	NA
Level 4 Preferences					
<i>Children of Individual, ContactPerson</i>					
FamilyName	/FamilyName	STR	ISUB	CAND	NA
GivenName	/GivenName	STR	ISUB	CAND	OR
SecondFamilyName	/SecondFamilyName	STR	ISUB	CAND	OR
Initial	/Initial	STR	ISUB	CAND	OR
ProfessionalName	/ProfessionalName	STR	ISUB	CAND	OR
<i>Children of QuasiPerson</i>					
CharacterName	/CharacterName	STR	ISUB	CAND	OR
RealPerson	/RealPerson	NA		CAND	OR
<i>Children of Organization</i>					
OrganizationName	/OrganizationName	STR	ISUB	CAND	NA
ContactPerson	/ContactPerson	NA		CAND	OR
Address	/Address	NA		CAND	OR
Preference Types					
FilteringAndSearchPreferenceType	/FilteringAndSearchPreferenceType	NA		NA	OR
BrowsingPreferenceType	/BrowsingPreferenceType	NA		NA	OR

FIG. 47C

Mapping Table:		
<u>name</u>	<u>interOp</u>	<u>intraOp</u>
A	AND	OR
B	AND	OR
C	AND	OR

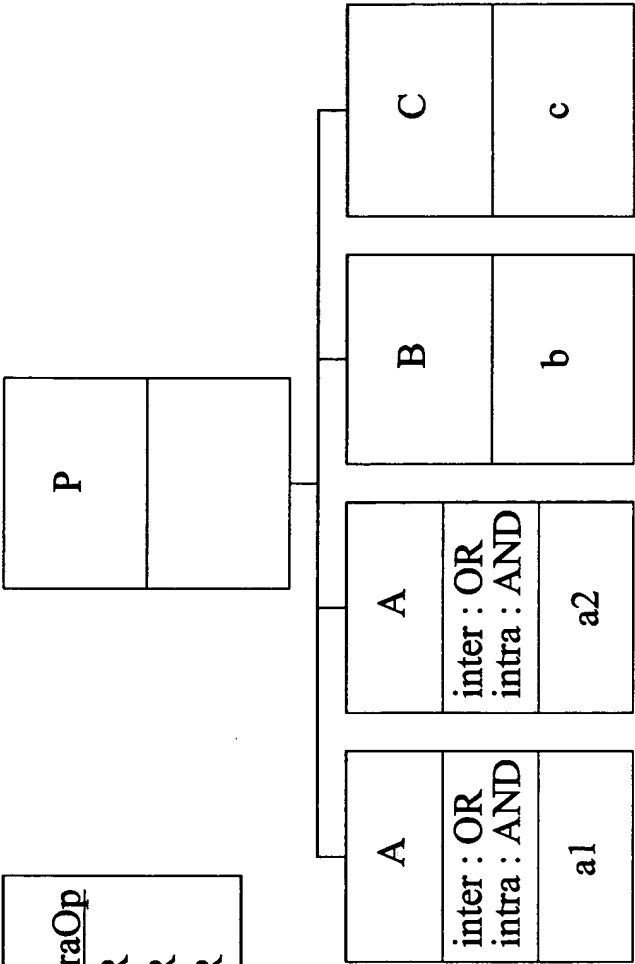


FIG. 48

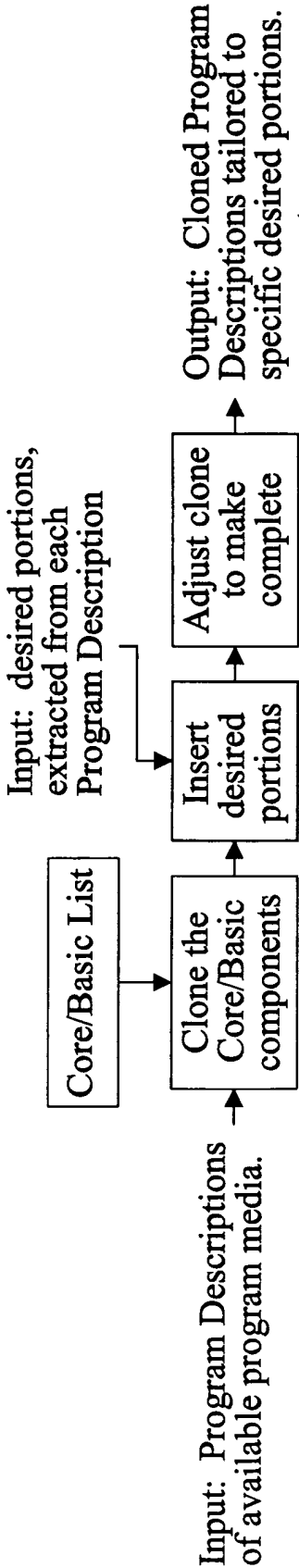


FIG. 49

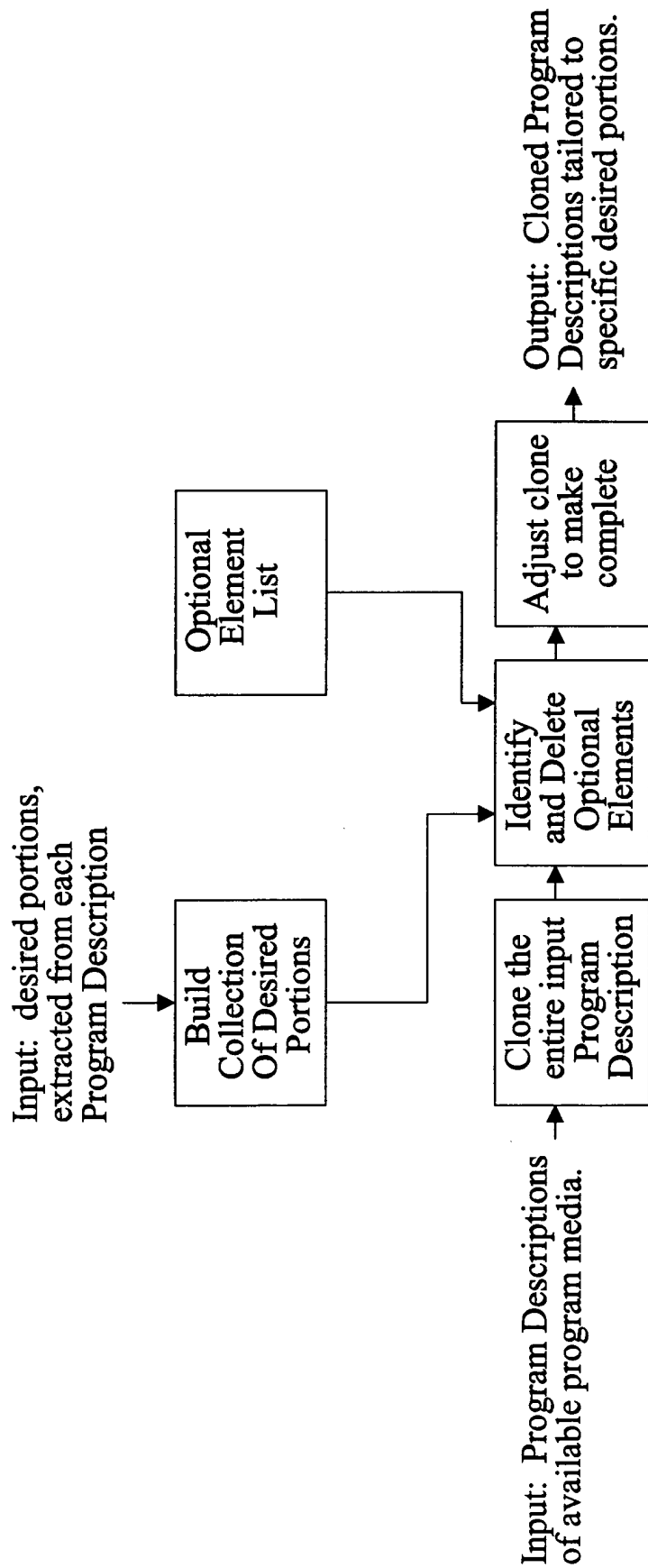


FIG. 50